



Gamme de Switches HP 2530



Caractéristiques

- Commutateurs de niveau 2 entièrement managés, fiables, sécurisés et à un prix très avantageux
- 8, 24 ou 48 ports Gigabit ou Fast Ethernet et 4 ports Gigabit pour liaisons montantes (2 liaisons montantes pour les modèles 8 ports)
- Modèles PoE+ pour la voix, la vidéo et les déploiements sans-fil
- Prise en charge de WDRR, de listes de contrôle d'accès et d'hôtes IPv4/IPv6
- Inclus la garantie à vie, toutes les versions logicielles et le support technique par téléphone

Aperçu du produit

La gamme de commutateurs HP 2530 est composée de douze commutateurs de périphérie de niveau 2 entièrement administrables et offre une connectivité fiable, sécurisée à un prix très avantageux pour les réseaux d'entreprise. Conçus pour les réseaux d'entreprise de taille petite à moyenne, ces commutateurs Gigabit Ethernet et Fast Ethernet fournissent des toutes les fonctionnalités de niveau 2 nécessaires telles que l'accès sécurisé, la priorisation du trafic, la prise en charge d'hôte IPv6, le PoE+ (sur certains modèles) et incluent la garantie à vie.

Les modèles 24 et 48 ports de la gamme de switches HP 2530 possèdent quatre liaisons montantes Gigabit Ethernet. Les commutateurs Fast Ethernet 2530 24 et 48 ports possèdent quatre emplacements SFP pour une connectivité fibre. Le modèle de switch 8 ports compact et sans ventilateur offre une flexibilité supplémentaire avec deux ports double personnalité qui peuvent être utilisés soit comme ports RJ-45 Gigabit ou SFP. Pour les clients utilisant le Power over Ethernet pour la voix, la vidéo ou les déploiements sans-fil, les commutateurs HP 2530 PoE+ sont IEEE 802.3af et IEEE 802.3at offrant jusqu'à 30 W par port.

La gamme de commutateur HP 2530 est facile à utiliser, à déployer et à administrer via SNMP, CLI, ou une interface web graphique. La gamme comprend différents kits de montage flexibles : mur, table et rack ; un fonctionnement silencieux ; une plus grande économie d'énergie avec des fonctionnalités comme IEEE 802.3az (Energy Efficient Ethernet). Ces commutateurs sont garantis à vie et incluent toutes les mises à jour logicielles et le support technique par téléphone.

Fonctions et avantages

Qualité de Service (QoS)

- **Priorisation du trafic (IEEE 802.1p)**
Autorise une classification en temps réel du trafic avec un support pour huit niveaux de priorité affectés à deux ou quatre queues ; utilise WDRR ou la stricte priorité SP
- **Configuration QoS simplifiée**
 - **Port-based**
Détermine la priorité du trafic en spécifiant un port et son niveau de priorité
 - **VLAN-based**
Détermine la priorité du trafic en spécifiant un VLAN et un niveau de priorité
- **Classe de Service (CoS)**
Définit un niveau de priorité IEEE 802.1p basé sur l'adresse IP, le type de service IP (ToS), un protocole de niveau 3, le numéro de port TCP/UDP, le port source et DiffServ
- **Limitation de débits**
Fixe le débit maximal en entrée par port pour tout le trafic entrant, ou pour le trafic de broadcast, multicast, ou unicast à destination inconnue
- **Priorisation de niveau 4**
Permet la priorisation en se basant sur le numéro de port TCP/UDP
- **Contrôle du flux**
Aide à fournir une communication fiable pendant un fonctionnement en full-duplex

Gestion

- **Choix des interfaces de gestion**
 - **Interface graphique web utilisateur (GUI)**
L'interface graphique facile d'utilisation basée sur l'HTML permet une configuration du commutateur de n'importe quel navigateur web
 - **Ligne de commande (CLI)**
Interface robuste en ligne de commandes qui fournit une configuration et un diagnostic avancés
 - **Simple Network Management Protocol (SNMPv1/v2c/v3)**
Autorise un commutateur à être géré par une variété d'applications tierces de gestion et supervision réseau
- **Stacking virtuel**
Gestion d'un maximum de 16 commutateurs via une adresse IP unique
- **sFlow (RFC 3176)**
Comptabilité et surveillance du trafic à vitesse filaire configurées par SNMP et CLI avec trois récepteurs terminaux cryptés
Surveillance et statistique sur le trafic à vitesse filaire, et envoi des données de manière chiffrée vers trois collecteurs.
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP)**
Automatise la découverte des appareils connectés au commutateur pour aider les stations de supervision à cartographier ce dernier
- **Journal d'évènement**
Suivi des évènements locaux ou à distance via SNMP (v2c et v3) et

syslog ; permet un filtrage des évènements pour réduire le nombre d'entrées générées

- **Port mirroring**
Permet au trafic d'être reflété sur n'importe quel port ou analyseur de réseau pour aider à diagnostiquer et détecter les attaques réseau
- **RMON (remote monitoring)**
Fournit des capacités de surveillance du trafic et de reporting avancés pour les statistiques, l'historique, les alertes et évènements
- **Trouve-Répare-et-Informe**
Trouve et résout automatiquement les problèmes réseau et en informe ensuite l'administrateur
- **Nommage personnalité des ports**
Permet la désignation de noms descriptifs pour les ports
- **Double image logicielle**
Elles fournissent des fichiers indépendants primaires et secondaires du système d'exploitation pour une plus grande sécurité lors de la mise à jour
- **Multiple fichiers de configuration**
Permet à de multiples fichiers de configuration d'être stockés dans la mémoire flash

Témoins en face avant

- **Localisateur LED**
Permet aux utilisateurs d'allumer le localisateur LED sur un commutateur spécifique, le faire clignoter ou l'éteindre ; cela simplifie la résolution des problèmes en facilitant la localisation d'un commutateur particulier au sein d'un rack de commutateurs similaires
- **Per-port LEDs**
Fournit une vue d'ensemble du statut, de l'activité, la vitesse et le fonctionnement en full-duplex
- **Power and fault LEDs**
Révèle n'importe quel problème

Connectivité

- **IPv6**
 - **Hôte IPv6**
Permet au commutateur d'être déployé et géré à la périphérie d'un réseau IPv6
 - **Dual stack (IPv4/IPv6)**
Soutien la connectivité pour différents protocoles ; fournit un mécanisme de transition de IPv4 vers IPv6
 - **MLD snooping**
Transfère le trafic multicast IPv6 à l'interface appropriée ; Évite au trafic multicast IPv6 d'inonder le réseau
- **IEEE 802.3af Power over Ethernet (PoE)**
Fournit jusqu'à 15.4 W par port aux appareils conformant à la norme PoE IEEE 802.3af comme les téléphones IP, les bornes wifi, et les caméras de sécurité
- **IEEE 802.3at Power over Ethernet Plus**
Fournit jusqu'à 30 W par port aux appareils conformant à la norme PoE+ IEEE 802.3 comme les téléphones IP, les bornes wifi IEEE 802.11n, et les camera de sécurité PTZ (voir les spécifications produits pour l'alimentation PoE disponible)

- **Auto-MDIX**

Il ajuste automatiquement les câbles droits ou croisés sur chaque port

- **Support pour norme antérieure à PoE**

Détecte et fournit de l'énergie aux appareils ayant une norme antérieure à PoE ; voir liste des appareils supportés dans la catégorie FAQ produit sur www.hp.com/networking/support

- **Emplacements SFP**

Fournit une connectivité fibre telle que Gigabit-SX, -LX, -LH et -BX avec quatre emplacements SFP sur les modèles 24 et 48 ports. Les modèles 24 et 48 ports Fast Ethernet ont deux emplacements SFP et deux liaisons montantes Gigabit RJ-45. Le modèle 8 ports possède deux ports double personnalité supportant à la fois les liaisons montantes Gigabit SFP ou RJ-45.

- **Port console série double personnalité (RJ-45 ou micro USB-B)**

Donne un accès simplifié à la CLI du commutateur via le port console série double personnalité RJ-45 ou micro USB-B

Commutateur niveau 2

- **VLANs**

Fournit un support pour 512 VLANs et 4094 IDs VLAN

- **Support des trames Jumbo**

Supporte des trames jusqu'à 9220-bytes pour améliorer la performance des transferts de données importantes. Les modèles 8 et 24 ports Fast Ethernet supportent automatiquement jusqu'à 2000 bytes sans avoir besoin de changer les configurations.

- **Table de 16000 adresses MAC**

Fournit un accès à de nombreux appareils de niveau 2

- **Protocole d'enregistrement GARP VLAN**

Permet un apprentissage automatique et une désignation dynamique des VLANs

Sécurité

- **Listes de contrôle d'accès (ACLs)**

Applicables aux ports IPv4/IPv6 et aux le VLAN*.IPv6 ACL est supporté par les modèles Gigabit et 48 ports uniquement.

- **Source-port filtering**

Autorise uniquement certains ports particuliers à communiquer entre eux

- **RADIUS/TACACS+**

Facilite l'administration de la sécurité des switches en utilisant un serveur d'authentification pour la gestion des mots de passe

- **Secure Sockets Layer (SSL)**

Crypte le trafic HTTP, autorisant un accès sécurisé à l'interface graphique de gestion du commutateur

- **Sécurité des ports**

Autorise l'accès à seulement quelques adresses MAC qui peuvent être mémorisées dynamiquement ou spécifiées par l'administrateur

- **MAC address lockout**

Empêche les adresses MAC préconfigurées de se connecter au réseau

- **Plusieurs méthodes d'authentification d'utilisateurs**

- **IEEE 802.1X**

Méthode standard de l'industrie d'identification des utilisateurs utilisant un client IEEE 802.1X en combinaison avec un serveur RADIUS

- **Authentification basée sur le web**

Identique à IEEE 802.1X et fournit un environnement basé sur un navigateur pour identifier les clients qui ne sont pas compatibles à la norme IEEE 802.1X

- **Authentification basée sur MAC**

Authentifie le client par son adresse MAC via un serveur RADIUS

- **Sécuré Shell (SSHv2; client et serveur)**

Il crypte toutes les données transmises pour un CLI sécurisé et distant pour tous les réseaux IP

- **Sécuré Shell Cela fait double emploi avec la précédente**

Il crypte toutes les données transmises pour un CLI sécurisé et distant pour tous les réseaux IP

- **Protection STP BPDU port**

Bloque les Bridge Protocol Data Units (BPDUs) aux ports qui n'en ont pas besoin, évite les attaques basées sur ces messages

- **STP Root Guard**

Protège le "root bridge" des attaques ou des erreurs de configuration

- **Accès sécurisé à l'interface de configuration**

Crypte de façon sécurisée toutes les méthodes d'accès (CLI, GUI, ou MIB) grâce à SSHv2 et SNMPv3

- **Bannière personnalisée**

Affiche la politique de sécurité lorsqu'un utilisateur se connecte au commutateur

- **Secure FTP**

Permet le transfert sécurisé des fichiers vers et du commutateur ; protège contre le téléchargement non voulu de fichiers ou de la copie non autorisée d'un fichier de configuration d'un commutateur

- **Protected ports CLI**

Offre une CLI intuitive pour configurer les caractéristiques des filtres du port source en autorisant les ports spécifiques à être isolé des autres ports du commutateur ; le ou les ports protégés peuvent communiquer uniquement avec le lien montant ou les ressources partagées

- **Flexibilité de l'authentification**

- **Multiple utilisateurs IEEE 802.1X par port**

Fournit une authentification jusqu'à huit utilisateurs IEEE 802.1X par port ; évite aux utilisateurs le "piggybacking" sur l'authentification 802.1X d'un autre utilisateur

- **Authentification par port simultanée IEEE 802.1X et Web ou MAC**

Les ports du commutateur accepteront les authentifications IEEE 802.1X et Web ou MAC

- **Sécurité de connexion à la gestion du commutateur**

Aide à sécuriser la connexion CLI du commutateur en exigeant une authentification RADIUS ou TACACS+

Convergence

- **LLDP-MED (Media Endpoint Discovery)**

Est une extension de LLDP qui stocke les valeurs pour les paramètres comme la QoS et VLAN pour configurer automatiquement les appareils réseaux comme les téléphones IP

- **IP multicast (data-driven IGMP)**

Évite automatiquement l'inondation du trafic multicast IP

- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP)**
Est un protocole de détection automatique des appareils qui facilite la cartographie pour des applications de gestion réseau
- **Allocations PoE et PoE+**
Supporte différentes méthodes (automatique, IEEE 802.3at dynamique, LLDP-MED fine grain, IEEE 802.3af device class, ou spécifique utilisateur) pour distribuer et gérer l'alimentation PoE/PoE+ pour plus d'économie d'énergie
- **Voix VLAN**
Utilise le LLDP-MED pour configurer automatiquement un VLAN pour les téléphones IP
- **IP multicast (data-driven IGMPv3)**
Évite automatiquement l'inondation de trafic IP multicast

Résilience et haute disponibilité

- **Port trunking and agrégation de liens**
 - **Trunking**
Supporte jusqu'à huit liens par trunk pour augmenter la bande passante et créer des connexions redondantes ; supporte l'algorithme trunk-load-balancing L2, L3, et L4*. Le trunk-load-balancing L4 est supporté par les modèles Gigabit et 48 ports uniquement
 - **IEEE 802.3ad Link Aggregation Protocol (LACP)**
Facilite la configuration de trunks grâce à la configuration automatique
- **IEEE 802.1s Multiple Spanning Tree**
Fournit une haute disponibilité des liens dans des environnements VLAN multiples en autorisant les spanning trees multiples; fournit un soutien traditionnel pour le IEEE 802.1d et IEEE 802.1w

Architecture produit

- **Conception basse consommation**
 - **IEEE 802.3az**
Réduit la consommation d'énergie durant les périodes de faible activité des données
 - **Mode faible consommation pour les ports**
Quand aucun lien n'est détecté sur un port, le port réduira immédiatement son alimentation pour économiser de l'énergie
 - **Ventilateurs**
Vitesse variable des ventilateurs qui permet de réduire la consommation d'énergie (tous les switches 8 ports, 2530-24 et 2530-48)
 - **Port LEDs**
Les LEDs associées aux ports peuvent être éteintes pour réduire la consommation d'énergie
- **Commutateur dans une puce**
Fournit un commutateur fortement intégré, de haute performance avec une architecture non bloquante

Flexibilité

- **Montage flexible**
 - **Rackable**
Peut être monté sur un rack 19 pouces à l'aide du matériel inclus
 - **Montable au mur**
Permet au commutateur d'être installé à un mur grâce au

matériel fourni

- **Montable sur une surface**

Permet à un commutateur d'être monté au-dessus ou en dessous d'une surface (tel qu'un bureau ou une table) grâce au matériel fourni

- **Fonctionnement silencieux**

Vitesse variable du ventilateur pour s'adapter à son fonctionnement en diminuant le bruit et la consommation d'énergie

Garantie et support

- **Garantie à vie**

Durant toute la durée de vie du produit avec un remplacement du produit et livraison le jour ouvrable suivant (disponible dans la plupart des pays)*

- **Support technique et téléphonique**

Un support téléphonique et technique limité est disponible chez HP, pour joindre un centre de support cliquez sur www.hp.com/networking/contact-support ;

Pour obtenir des détails sur la durée du support fourni avec l'achat de notre produit, consultez : www.hp.com/networking/warrantysummary

- **Logiciel**

Pour trouver des logiciels pour vos produits, consultez www.hp.com/networking/support ; pour des détails sur la disponibilité des logiciels compatibles avec votre produit acheté, consultez www.hp.com/networking/warrantysummary

*La garantie HP comprend la réparation ou le remplacement du produits tant que vous le possédez, remplacement anticipé le jour ouvré suivant (disponible dans la plupart des pays). Pour plus de détails, merci de consulter www.hp.com/networking/warranty.

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Caractéristiques



Switch HP 2530-48G-PoE+ (J9772A)



Switch HP 2530-24G-PoE+ (J9773A)



Switch HP 2530-8G-PoE+ (J9774A)

	Switch HP 2530-48G-PoE+ (J9772A)	Switch HP 2530-24G-PoE+ (J9773A)	Switch HP 2530-8G-PoE+ (J9774A)
Ports	48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port	24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port	8 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-Tx; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) 1 dual-personality (RJ-45 or USB micro-B) serial console port
Caractéristiques physiques	17.44(w) x 13.00(d) x 1.75(h) in (44.3 x 32.26 x 4.45 cm) (1U height)	17.44(w) x 13.00(d) x 1.75(h) in (44.3 x 33.02 x 4.45 cm) (1U height)	10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)
Poids	10.4 lb (4.72 kg)	8.7 lb (3.95 kg)	2.2 lb (1 kg)
Mémoire et processeur	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated
Montage	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting
Performance	IPv6 Ready Certified Latence 100 Mb < 7.4 µs (LIFO 64-byte packets) Latence 1000 Mb < 2.3 µs (LIFO 64-byte packets) Débit up to 77.3 million pps (64-byte packets) Capacité du commutateur 104 Gbps Taille de la table d'adresse MAC 16000 entries	IPv6 Ready Certified Latence 100 Mb < 7.4 µs (LIFO 64-byte packets) Latence 1000 Mb < 2.3 µs (LIFO 64-byte packets) Débit up to 41.6 million pps (64-byte packets) Capacité du commutateur 56 Gbps Taille de la table d'adresse MAC 16000 entries	IPv6 Ready Certified Latence 100 Mb < 7.4 µs (LIFO 64-byte packets) Latence 1000 Mb < 2.6 µs (LIFO 64-byte packets) Débit up to 14.8 million pps (64-byte packets) Capacité du commutateur 20 Gbps Taille de la table d'adresse MAC 16000 entries
Environnement	T° de fonctionnement 32°F to 113°F (0°C to 45°C) Humidité relative au fct 15% to 95% @ 104°F (40°C), noncondensing T° en veille -40°F to 158°F (-40°C to 70°C) Humidité en veille 15% to 90% @ 149°F (65°C), noncondensing Altitude up to 10,000 ft (3 km) Acoustique Power: 33.6 dB, Pressure: 43.9 dB	T° de fonctionnement 32°F to 113°F (0°C to 45°C) Humidité relative au fct 15% to 95% @ 104°F (40°C), noncondensing T° en veille -40°F to 158°F (-40°C to 70°C) Humidité en veille 15% to 90% @ 149°F (65°C), noncondensing Altitude up to 10,000 ft (3 km) Acoustique Power: 39.6 dB, Pressure: 43.9 dB	T° de fonctionnement 32°F to 113°F (0°C to 45°C) Humidité relative au fct 15% to 95% @ 104°F (40°C), noncondensing T° en veille -40°F to 158°F (-40°C to 70°C) Humidité en veille 15% to 90% @ 149°F (65°C), noncondensing Altitude up to 10,000 ft (3 km) Acoustique Power: 0 dB, Pressure: 0 dB
Caractéristiques électriques	Frequence 50/60 Hz Dissipation thermique maximale 236 BTU/hr (248.98 kJ/hr), (switch only: 236 BTU/hr; combined switch + max. PoE devices: 1624 BTU/hr) Voltage 100-127/200-240 VAC Current 5.8/2.9 A Taux puissance maximale 476 W Energie à l'arrêt 40.1 W Puissance PoE 382 W Notes Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the total power budget available to all PoE ports.	Frequence 50/60 Hz Dissipation thermique maximale 135 BTU/hr (142.42 kJ/hr), (switch only: 135 BTU/hr; combined switch + max. PoE devices: 843 BTU/hr) Voltage 100-127/200-240 VAC Current 3.2/1.6 A Taux puissance maximale 247 W Energie à l'arrêt 25.2 W Puissance PoE 195 W Notes Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the total power budget available to all PoE ports.	Frequence 50/60 Hz Dissipation thermique maximale 65 BTU/hr (68.58 kJ/hr), (switch only: 65 BTU/hr; combined switch + max. PoE devices: 293 BTU/hr) Voltage 100-127/200-240 VAC Current 1.4 A Taux puissance maximale 86 W Energie à l'arrêt 13.4 W Puissance PoE 67 W Notes Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the total power budget available to all PoE ports.
Sécurité	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
Emissions	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A

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Caractéristiques

	Switch HP 2530-48G-PoE+ (J9772A)	Switch HP 2530-24G-PoE+ (J9773A)	Switch HP 2530-8G-PoE+ (J9774A)
Immunité			
Generique	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Champ magnétique à la freq du secteur	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Chutes et interruptions de tension	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Scintillements	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Gestion	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB
Notes	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E) 3-year, 24x7 SW phone support, software updates (UF792E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E) 4-year, 24x7 SW phone support, software updates (UR951E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E) 3 Yr 6 hr Call-to-Repair Onsite (UW368E) 4 Yr 6 hr Call-to-Repair Onsite (UW369E) 5 Yr 6 hr Call-to-Repair Onsite (UW370E) 1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E) 1-year, 24x7 software phone support, software updates (HR852E) 1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E) 1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)	3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E) 3-year, 24x7 SW phone support, software updates (UF792E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E) 4-year, 24x7 SW phone support, software updates (UR951E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E) 3 Yr 6 hr Call-to-Repair Onsite (UW368E) 4 Yr 6 hr Call-to-Repair Onsite (UW369E) 5 Yr 6 hr Call-to-Repair Onsite (UW370E) 1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E) 1-year, 24x7 software phone support, software updates (HR852E) 1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E) 1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)	3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E) 3-year, 24x7 SW phone support, software updates (UF792E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E) 4-year, 24x7 SW phone support, software updates (UR951E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E) 3 Yr 6 hr Call-to-Repair Onsite (UW368E) 4 Yr 6 hr Call-to-Repair Onsite (UW369E) 5 Yr 6 hr Call-to-Repair Onsite (UW370E) 1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E) 1-year, 24x7 software phone support, software updates (HR852E) 1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E) 1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)

Gamme de switches HP 2530

Caractéristiques (suite)

	Switch HP 2530-48G-PoE+ (J9772A)	Switch HP 2530-24G-PoE+ (J9773A)	Switch HP 2530-8G-PoE+ (J9774A)
	<p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>	<p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>	<p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>
Normes et protocoles (s'appliquent à tous les produits de la gamme)	<p>Denial of service protection Network DoS Filter</p> <p>Device management RFC 1591 DNS (client) SSHv1/SSHv2 Secure Shell</p> <p>General protocols IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 868 Time Protocol RFC 951 BOOTP RFC 1350 TFTP Protocol (revision 2) RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP</p>	<p>IP multicast RFC 3376 IGMPv3 (host joins only)</p> <p>IPv6 RFC 1981 IPv6 Path MTU Discovery RFC 2460 IPv6 Specification RFC 2925 Remote Operations MIB (Ping only) RFC 3315 DHCPv6 (client only) RFC 3513 IPv6 Addressing Architecture RFC 3596 DNS Extension for IPv6 RFC 4022 MIB for TCP RFC 4113 MIB for UDP RFC 4251 SSHv6 Architecture RFC 4252 SSHv6 Authentication RFC 4252 SSHv6 Transport Layer RFC 4254 SSHv6 Connection RFC 4293 MIB for IP RFC 4419 Key Exchange for SSH RFC 4443 ICMPv6 RFC 4861 IPv6 Neighbor Discovery RFC 4862 IPv6 Stateless Address Auto-configuration</p> <p>MIBs RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting Client MIB RFC 2665 Ethernet-Like-MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2688 MAU-MIB RFC 2737 Entity MIB (Version 2) RFC 2863 The Interfaces Group MIB</p>	<p>Network management IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 1098 A Simple Network Management Protocol (SNMP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3</p> <p>QoS/CoS RFC 2474 DiffServ precedence, with 4 queues per port RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF)</p> <p>Security IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+ RFC 2138 RADIUS Authentication RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL)</p>

Gamme de switches HP 2530

Caractéristiques (suite)



	Switch HP 2530-48-PoE+ (J9778A)	Switch HP 2530-24-PoE+ (J9779A)	Switch HP 2530-8-PoE+ (J9780A)
Ports	<p>48 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full</p> <p>2 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>2 fixed Gigabit Ethernet SFP ports</p> <p>1 dual-personality (RJ-45 or USB micro-B) serial console port</p>	<p>24 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full</p> <p>2 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>2 fixed Gigabit Ethernet SFP ports</p> <p>1 dual-personality (RJ-45 or USB micro-B) serial console port</p>	<p>8 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full</p> <p>2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-Tx; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) ports</p> <p>1 dual-personality (RJ-45 or USB micro-B) serial console port</p>
Caractéristiques physiques	<p>17.4(w) x 12.7(d) x 1.75(h) in (44.2 x 32.26 x 4.45 cm) (1U height)</p> <p>10.1 lb (4.58 kg)</p>	<p>17.4(w) x 12.7(d) x 1.75(h) in (44.2 x 32.26 x 4.45 cm) (1U height)</p> <p>8.4 lb (3.81 kg)</p>	<p>10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)</p> <p>2.0 lb (0.91 kg)</p>
Mémoire et processeur	<p>Processeur ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated</p>	<p>Processeur ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated</p>	<p>Processeur ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated</p>
Montage	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting
Performance	<p>IPv6 Ready Certified</p> <p>Latence 100 Mb < 6.6 µs (LIFO 64-byte packets)</p> <p>Latence 1000 Mb < 2.2 µs (LIFO 64-byte packets)</p> <p>Débit up to 13 million pps (64-byte packets)</p> <p>Capacité du commutateur 17.6 Gbps</p> <p>Taille de la table d'adresse MAC 16000 entries</p>	<p>IPv6 Ready Certified</p> <p>Latence 100 Mb < 1.7 µs (LIFO 64-byte packets)</p> <p>Latence 1000 Mb < 1.1 µs (LIFO 64-byte packets)</p> <p>Débit up to 9.5 million pps (64-byte packets)</p> <p>Capacité du commutateur 12.8 Gbps</p> <p>Taille de la table d'adresse MAC 16000 entries</p>	<p>IPv6 Ready Certified</p> <p>Latence 100 Mb < 1.3 µs (LIFO 64-byte packets)</p> <p>Latence 1000 Mb < 2.3 µs (LIFO 64-byte packets)</p> <p>Débit up to 4.1 million pps (64-byte packets)</p> <p>Capacité du commutateur 5.6 Gbps</p> <p>Taille de la table d'adresse MAC 16000 entries</p>
Environnement	<p>T° de fonctionnement 32°F to 113°F (0°C to 45°C)</p> <p>Humidité relative au fonctionnement 15% to 95% @ 104°F (40°C), noncondensing</p> <p>T° en veille -40°F to 158°F (-40°C to 70°C)</p> <p>Humidité en veille 15% to 90% @ 149°F (65°C), noncondensing</p> <p>Altitude up to 10,000 ft (3 km)</p> <p>Acoustique Power: 31.8 dB, Pressure: 37.9 dB</p>	<p>T° de fonctionnement 32°F to 113°F (0°C to 45°C)</p> <p>Humidité relative au fonctionnement 15% to 95% @ 104°F (40°C), noncondensing</p> <p>T° en veille -40°F to 158°F (-40°C to 70°C)</p> <p>Humidité en veille 15% to 90% @ 149°F (65°C), noncondensing</p> <p>Altitude up to 10,000 ft (3 km)</p> <p>Acoustique Power: 31.7 dB, Pressure: 40.4 dB</p>	<p>T° de fonctionnement 32°F to 113°F (0°C to 45°C)</p> <p>Humidité relative au fonctionnement 15% to 95% @ 104°F (40°C), noncondensing</p> <p>T° en veille -40°F to 158°F (-40°C to 70°C)</p> <p>Humidité en veille 15% to 90% @ 149°F (65°C), noncondensing</p> <p>Altitude up to 10,000 ft (3 km)</p> <p>Acoustique Power: 0 dB, Pressure: 0 dB</p>
Caractéristiques électriques	<p>Frequence 50/60 Hz</p> <p>Dissipation thermique maximale 170 BTU/hr (179.35 kJ/hr), (switch only: 170 BTU/hr; combined switch + max. PoE devices: 1505 BTU/hr)</p> <p>Voltage 100-127/200-240 VAC</p> <p>Current 5.2/2.6 A</p> <p>Taux puissance maximale 441 W</p> <p>puissance à l'arrêt 37.5 W</p> <p>Puissance PoE 382 W</p> <p>Notes Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the total power budget available to all PoE ports.</p>	<p>Frequence 50/60 Hz</p> <p>Dissipation thermique maximale 99 BTU/hr (104.45 kJ/hr), (switch only: 99 BTU/hr; combined switch + max. PoE devices: 809 BTU/hr)</p> <p>Voltage 100-127/200-240 VAC</p> <p>Current 2.8/1.4 A</p> <p>Taux puissance maximale 237 W</p> <p>puissance à l'arrêt 21.8 W</p> <p>Puissance PoE 195 W</p> <p>Notes Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the total power budget available to all PoE ports.</p>	<p>Frequence 50/60 Hz</p> <p>Dissipation thermique maximale 29 BTU/hr (30.6 kJ/hr), (switch only: 29 BTU/hr; combined switch + max. PoE devices: 262 BTU/hr)</p> <p>Voltage 100-127/200-240 VAC</p> <p>Current 1.4 A</p> <p>Taux puissance maximale 76.7 W</p> <p>puissance à l'arrêt 5.8 W</p> <p>Puissance PoE 67 W</p> <p>Notes Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the total power budget available to all PoE ports.</p>
Sécurité	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
Emissions	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A

Gamme de switches HP 2530

Caractéristiques (suite)

	Switch HP 2530-48-PoE+ (J9778A)	Switch HP 2530-24-PoE+ (J9779A)	Switch HP 2530-8-PoE+ (J9780A)
Immunité			
Generique	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Champ magnétique à la freq du secteur	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Chutes et interruptions de tension	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Scintillements	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Gestion	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB
Notes	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.
Services	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (H5554E)</p>	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (H5554E)</p>	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (H5554E)</p>

Gamme de switches HP 2530

Caractéristiques (suite)

	Switch HP 2530-48-PoE+ (J9778A)	Switch HP 2530-24-PoE+ (J9779A)	Switch HP 2530-8-PoE+ (J9780A)
	<p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>	<p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>	<p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>
Normes et protocoles (s'appliquent à tous les produits de la gamme)	<p>Denial of service protection Network DoS Filter</p> <p>Device management RFC 1591 DNS (client) SSHv1/SSHv2 Secure Shell</p> <p>General protocols IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 868 Time Protocol RFC 951 BOOTP RFC 1350 TFTP Protocol (revision 2) RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP</p>	<p>IP multicast RFC 3376 IGMPv3 (host joins only)</p> <p>IPv6 RFC 1981 IPv6 Path MTU Discovery RFC 2460 IPv6 Specification RFC 2925 Remote Operations MIB (Ping only) RFC 3315 DHCPv6 (client only) RFC 3513 IPv6 Addressing Architecture RFC 3596 DNS Extension for IPv6 RFC 4022 MIB for TCP RFC 4113 MIB for UDP RFC 4251 SSHv6 Architecture RFC 4252 SSHv6 Authentication RFC 4252 SSHv6 Transport Layer RFC 4254 SSHv6 Connection RFC 4293 MIB for IP RFC 4419 Key Exchange for SSH RFC 4443 ICMPv6 RFC 4861 IPv6 Neighbor Discovery RFC 4862 IPv6 Stateless Address Auto-configuration</p> <p>MIBs RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting Client MIB RFC 2665 Ethernet-Like-MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2688 MAU-MIB RFC 2737 Entity MIB (Version 2) RFC 2863 The Interfaces Group MIB</p>	<p>Network management IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 1098 A Simple Network Management Protocol (SNMP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3</p> <p>QoS/CoS RFC 2474 DiffServ precedence, with 4 queues per port RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF)</p> <p>Security IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+ RFC 2138 RADIUS Authentication RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL)</p>

Gamme de switches HP 2530

Caractéristiques (suite)



	Switch HP 2530-48G (J9775A)	Switch HP 2530-24G (J9776A)	Switch HP 2530-8G (J9777A)
Ports	<p>48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>4 fixed Gigabit Ethernet SFP ports</p> <p>1 dual-personality (RJ-45 or USB micro-B) serial console port</p>	<p>24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>4 fixed Gigabit Ethernet SFP ports</p> <p>1 dual-personality (RJ-45 or USB micro-B) serial console port</p> <p>Supports a maximum of 28 Gigabit Ethernet ports</p>	<p>8 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-Tx; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) ports</p> <p>1 dual-personality (RJ-45 or USB micro-B) serial console port</p>
Caractéristiques physiques	17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height)	17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height)	10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)
Poid	6.8 lb (3.08 kg)	6.1 lb (2.77 kg)	2.0 lb (0.91 kg)
Memoire et processeur			
Processeur	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated
Montage	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting
Performance			
Latence 100 Mb	IPv6 Ready Certified < 7.4 µs (LIFO 64-byte packets)	IPv6 Ready Certified < 7.4 µs (LIFO 64-byte packets)	IPv6 Ready Certified < 7.4 µs (LIFO 64-byte packets)
Latence 1000 Mb	< 2.3 µs (LIFO 64-byte packets)	< 2.3 µs (LIFO 64-byte packets)	< 2.6 µs (LIFO 64-byte packets)
Débit	up to 77.3 million pps (64-byte packets)	up to 41.6 million pps (64-byte packets)	up to 14.8 million pps (64-byte packets)
Capacité du commutateur	104 Gbps	56 Gbps	20 Gbps
Taille de la table d'adresse MAC	16000 entries	16000 entries	16000 entries
Environnement			
T° en fonctionnement	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Humidité relative au fonctionnement	15% to 95% @ 104°F (40°C), noncondensing	15% to 95% @ 104°F (40°C), noncondensing	15% to 95% @ 104°F (40°C), noncondensing
T° en veille	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Humidité en veille	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)
Acoustique	Power: 31.0 dB, Pressure: 34.5 dB	Power: 26.4 dB, Pressure: 34.0 dB	Power: 0 dB, Pressure: 0 dB
Caractéristiques électriques			
Frequence	50/60 Hz Achieved Miercom Certified Green Award	50/60 Hz	50/60 Hz
Dissipation thermique maximale	203 BTU/hr (214.17 kJ/hr)	164 BTU/hr (173.02 kJ/hr)	63 BTU/hr (66.46 kJ/hr), (switch only: 63 BTU/hr)
Voltage	100-127/200-240 VAC	100-127/200-240 VAC	100-127/200-240 VAC
Current	1.2/0.7 A	.6/.4 A	0.5 A
Taux puissance maximale	59.5 W	48.0 W	18.6 W
Puissance) l'arrêt	29.5 W	28.8 W	13.6 W
Notes	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Sécurité	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
Emissions	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A
Immunité			
Generic	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24

Gamme de switches HP 2530

Caractéristiques (suite)

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ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Champ magnétique à la freq du secteur	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Chutes et interruptions de tension	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Gestion	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB
Notes	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.
Services	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p>	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p>	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p>

Gamme de switches HP 2530

Caractéristiques (suite)

Switch HP 2530-48G (J9775A)	Switch HP 2530-24G (J9776A)	Switch HP 2530-8G (J9777A)	
<p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>	<p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>	<p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>	
<p>Normes et protocoles (s'appliquent à tous les produits de la gamme)</p>	<p>Denial of service protection Network DoS Filter</p> <p>Device management RFC 1591 DNS (client) SSHv1/SSHv2 Secure Shell</p> <p>General protocols IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 868 Time Protocol RFC 951 BOOTP RFC 1350 TFTP Protocol (revision 2) RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP</p>	<p>IP multicast RFC 3376 IGMPv3 (host joins only)</p> <p>IPv6 RFC 1981 IPv6 Path MTU Discovery RFC 2460 IPv6 Specification RFC 2925 Remote Operations MIB (Ping only) RFC 3315 DHCPv6 (client only) RFC 3513 IPv6 Addressing Architecture RFC 3596 DNS Extension for IPv6 RFC 4022 MIB for TCP RFC 4113 MIB for UDP RFC 4251 SSHv6 Architecture RFC 4252 SSHv6 Authentication RFC 4252 SSHv6 Transport Layer RFC 4254 SSHv6 Connection RFC 4293 MIB for IP RFC 4419 Key Exchange for SSH RFC 4443 ICMPv6 RFC 4861 IPv6 Neighbor Discovery RFC 4862 IPv6 Stateless Address Auto-configuration</p> <p>MIBs RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting Client MIB RFC 2665 Ethernet-Like-MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2688 MAU-MIB RFC 2737 Entity MIB (Version 2) RFC 2863 The Interfaces Group MIB</p>	<p>Network management IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 1098 A Simple Network Management Protocol (SNMP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3</p> <p>QoS/CoS RFC 2474 DiffServ precedence, with 4 queues per port RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF)</p> <p>Security IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+ RFC 2138 RADIUS Authentication RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL)</p>

Gamme de switches HP 2530

Caractéristiques (suite)



	Switch HP 2530-48 (J9781A)	Switch HP 2530-24 (J9782A)	Switch HP 2530-8 (J9783A)
Ports	<p>48 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full</p> <p>2 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>2 fixed Gigabit Ethernet SFP ports</p> <p>1 dual-personality (RJ-45 or USB micro-B) serial console port</p>	<p>24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full</p> <p>2 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>2 fixed Gigabit Ethernet SFP ports</p> <p>1 dual-personality (RJ-45 or USB micro-B) serial console port</p>	<p>8 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full</p> <p>2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-Tx; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) ports</p> <p>1 dual-personality (RJ-45 or USB micro-B) serial console port</p>
Caractéristiques physiques	17.4(w) x 9.7(d) x 1.75(h) in (44.2 x 24.64 x 4.45 cm) (1U height)	17.4(w) x 9.7(d) x 1.75(h) in (44.2 x 24.64 x 4.45 cm) (1U height)	10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)
Poids	6.3 lb (2.86 kg)	5.7 lb (2.59 kg)	1.8 lb (0.82 kg)
Mémoire et processeur	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated
Montage	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting
Performance	IPv6 Ready Certified	IPv6 Ready Certified	IPv6 Ready Certified
Latence 100 Mb	< 6.6 µs (LIFO 64-byte packets)	< 1.7 µs (LIFO 64-byte packets)	< 1.3 µs (LIFO 64-byte packets)
Latence 1000 Mb	< 2.2 µs (LIFO 64-byte packets)	< 1.1 µs (LIFO 64-byte packets)	< 1.3 µs (LIFO 64-byte packets)
Débit	up to 13 million pps (64-byte packets)	up to 9.5 million pps (64-byte packets)	up to 4.1 million pps (64-byte packets)
Capacité du commutateur	17.6 Gbps	12.8 Gbps	5.6 Gbps
Taille de la table d'adresse MAC	16000 entries	16000 entries	16000 entries
Environnement	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Humidité relative au fonctionnement	15% to 95% @ 104°F (40°C), noncondensing	15% to 95% @ 104°F (40°C), noncondensing	15% to 95% @ 104°F (40°C), noncondensing
T° en veille	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Humidité en veille	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)
Acoustique	Power: 0 dB, Pressure: 0 dB	Power: 0 dB, Pressure: 0 dB	Power: 0 dB, Pressure: 0 dB
Caractéristiques électriques	50/60 Hz	50/60 Hz	50/60 Hz
Dissipation thermique maximale	102 BTU/hr (107.61 kJ/hr)	50 BTU/hr (52.75 kJ/hr)	25 BTU/hr (26.38 kJ/hr)
Voltage	100-127/200-240 VAC	100-127/200-240 VAC	100-127/200-240 VAC
Current	0.7/0.4 A	0.3/0.2 A	0.5 A
Taux puissance maximale	29.9 W	14.7 W	7.2 W
Puissance à l'arrêt	17.1 W	8.4 W	4.5 W
Notes	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Sécurité	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
Emissions	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A
Immunité	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
Generic	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3

Gamme de switches HP 2530

Caractéristiques (suite)

	Switch HP 2530-48 (J9781A)	Switch HP 2530-24 (J9782A)	Switch HP 2530-8 (J9783A)
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Champ magnétique à la freq du secteur	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Chutes et interruptions de tension	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Scintillements	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Gestion	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB
Notes	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.
Services	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p>	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p>	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p>

Gamme de switches HP 2530

Caractéristiques (suite)

Switch HP 2530-48 (J9781A)	Switch HP 2530-24 (J9782A)	Switch HP 2530-8 (J9783A)	
<p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>	<p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>	<p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>	
<p>Normes et protocoles (s'appliquent à tous les produits de la gamme)</p>	<p>Denial of service protection Network DoS Filter</p> <p>Device management RFC 1591 DNS (client) SSHv1/SSHv2 Secure Shell</p> <p>General protocols IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 868 Time Protocol RFC 951 BOOTP RFC 1350 TFTP Protocol (revision 2) RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP</p>	<p>IP multicast RFC 3376 IGMPv3 (host joins only)</p> <p>IPv6 RFC 1981 IPv6 Path MTU Discovery RFC 2460 IPv6 Specification RFC 2925 Remote Operations MIB (Ping only) RFC 3315 DHCPv6 (client only) RFC 3513 IPv6 Addressing Architecture RFC 3596 DNS Extension for IPv6 RFC 4022 MIB for TCP RFC 4113 MIB for UDP RFC 4251 SSHv6 Architecture 4252 SSHv6 Authentication RFC 4252 SSHv6 Transport Layer RFC 4254 SSHv6 Connection RFC 4293 MIB for IP RFC 4419 Key Exchange for SSH RFC 4443 ICMPv6 RFC 4861 IPv6 Neighbor Discovery RFC 4862 IPv6 Stateless Address Auto-configuration</p> <p>MIBs RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting Client MIB RFC 2665 Ethernet-Like-MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2688 MAU-MIB RFC 2737 Entity MIB (Version 2) RFC 2863 The Interfaces Group MIB</p>	<p>Network management IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 1098 A Simple Network Management Protocol (SNMP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3</p> <p>QoS/CoS RFC 2474 DiffServ precedence, with 4 queues per port RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF)</p> <p>Security IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+ RFC 2138 RADIUS Authentication RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL)</p>

Accessoires gamme de switches HP 2530

Transceivers

Transceiver HP X121 1G SFP LC SX (J4858C)
Transceiver HP X121 1G SFP LC LX (J4859C)
Transceiver HP X121 1G SFP LC LH (J4860C)
Transceiver HP X111 100M SFP LC FX (J9054C)
Transceiver HP X112 100M SFP LC BX-D (J9099B)
Transceiver HP X112 100M SFP LC BX-U (J9100B)
Transceiver HP X122 1G SFP LC BX-D (J9142B)
Transceiver HP X122 1G SFP LC BX-U (J9143B)
Transceiver HP X121 1G SFP RJ45 T (J8177C)

Kit de montage

Kit de mise en rack 4 points de fixation HP X410 1U Universal (J9583A)

Switch HP 2530-8G-PoE+ (J9774A)

HP X510 1U Cable Guard (J9700A)
HP 2530 8-port Switch Power Adapter Shelf (J9820A)

Switch HP 2530-8-PoE+ (J9780A)

HP X510 1U Cable Guard (J9700A)

HP 2530 8-port Switch Power Adapter Shelf (J9820A)

Switch HP 2530-8G (J9777A)

HP X510 1U Cable Guard (J9700A)
HP 2530 8-port Switch Power Adapter Shelf (J9820A)

Switch HP 2530-8 (J9783A)

HP X510 1U Cable Guard (J9700A)
HP 2530 8-port Switch Power Adapter Shelf (J9820A)



Products within this series are IPv6 Ready certified. See the Specifications section of this series for more information.

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