

Wireless AP Managed Switch with 24-Port 802.3at PoE + 4-Port 10G SFP+ + LCD Touch Screen and 48VDC Redundant Power



Enterprise Wireless Management Solution with PoE

PLANET WS-2864PVR, an enhanced Wireless AP Managed Switch, features Smart AP control, Layer 3 OSPF/static routing and Intelligent PoE capability to enable service providers and IT managers to control all wireless APs at the same time in medium- and large-scale wireless network environments. The WS-2864PVR provides IPv6/IPv4 dual stack management and built-in L2/L4 Gigabit Switching engine along with 24 10/100/1000BASE-T ports featuring up to 36-watt 802.3at PoE+, and 4 extra 10 Gigabit BASE-X SFP+ fiber slots. This is definitely the best network solution for a quick, safe and cost-effective AP control with Power over Ethernet for enterprises.

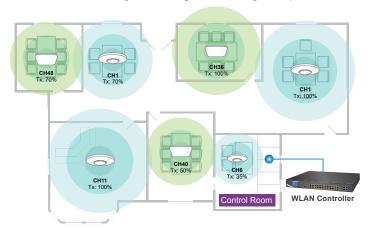
Five Steps to Manage AP Cluster within Minutes

The WS-2864PVR offers a user-friendly Web GUI for easy configuration. It features centralized management of PLANET Smart AP series without needing to manually configure each AP for the wireless SSID, radio band and security settings. With a five-step configuration process, different purposes of wireless profiles can be simultaneously delivered to multiple APs or AP groups to minimize deployment time, effort and cost.

Optimizing Wi-Fi Deployment with Floor Maps

Importing your floor maps and locating each AP or AP group according to the field deployment can save your time and cost of on-site support and monitoring. It shows real-time AP status, and its signal heat map is capable of reflecting the actual coverage and helps the administrator to fine-tune the overlapping of the adjacent APs anytime to optimize the wireless network performance.

Visualizing Wi-Fi Signals through Map



Physical Port

- 24 10/100/1000BASE-T Gigabit RJ45 copper ports with 24-port
 IEEE 802.3af/at PoE+ injector
- 4 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP
- RS-232 RJ45 console interface for switch basic management and setup

Wireless LAN AP Management

- Dashboard: provides at-a-glance view of system and wireless network status
- AP Discovery: one key to discover the managed APs on the managed LAN
- Customized Profile: allows multiple wireless profiles creation and maintenance
- · Auto Provision: multi-AP provisioning with one click
- · Cluster Management: simplifies high-density AP management
- Zone Plan: optimizes AP deployment with actual signal coverage
- · Analysis: real-time AP status monitoring
- Scalability: free system upgrade and AP firmware bulk upgrade capability

Power over Ethernet

- · Up to 24 ports of IEEE 802.3af/802.3at devices powered
- · Supports PoE Power up to 36 watts for each PoE port
- · Auto detects powered device (PD)
- · Circuit protection prevents power interference between ports
- · Remote power feeding up to 100 meters
- · PoE Management
 - PoE Port status monitoring
 - Total PoE power budget control
 - Over temperature protection
 - PoE usage threshold
 - Temperature threshold
 - Per port PoE function enable/disable
 - PoE Port power feeding priority
 - Per PoE port power limit
 - PD classification detection
 - Sequence port PoE



Maximal Scalability and Compatibility with Various Smart APs

To fulfill various business needs, the WS-2864PVR provides a maximum scalability and is compatible with over 10 models of Smart APs from indoor to outdoor series including ceiling-mount, wall-mount, in-wall, industrial, single-band, dual-band and high-power access points which are able to adapt to different environments.

Scalability and Compatibility



Smart and Intuitive LCD Control

The intuitive touch panel of the WS-2864PVR with PLANET unique Smart LCD design greatly facilitates the Ethernet PoE PD management of large-scale networks of enterprises, hotels, shopping malls, government buildings and other public areas. With the configurable LCD control, the administrator performs IP configurations, PoE, hardware management, system status monitoring and basic diagnostic test without logging on to the web interface, thus making the management of the system more efficient.



Optimize Management with a Simple Touch

10Gbps Ethernet Uplink for High-volume Transmission

The WS-2864PVR provides greater bandwidth and powerful processing capacity. The WS-2864PVR offers a maximum **40Gbps** uplink bandwidth through the four 10Gbps SFP+ ports. In addition, the administrator can flexibly choose the suitable SFP/SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently.

40Gbps Fiber uplink



Layer 2 Features

- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)
- High performance of Store-and-Forward architecture and runt/ CRC filtering eliminates erroneous packets to optimize the network bandwidth
- · Storm Control support
 - Broadcast/Multicast/Unknown unicast
- · Supports VLAN
 - IEEE 802.1Q tagged VLAN
 - Up to 255 VLANs groups, out of 4095 VLAN IDs
 - Supports provider bridging (VLAN Q-in-Q, IEEE 802.1ad)
 - Private VLAN Edge (PVE)
 - Protocol-based VLAN
 - MAC-based VLAN
 - Voice VLAN
- · Supports Spanning Tree Protocol
 - IEEE 802.1D Spanning Tree Protocol
 - IEEE 802.1w Rapid Spanning Tree Protocol
 - IEEE 802.1s Multiple Spanning Tree Protocol, spanning tree by VLAN
 - BPDU Guard
- · Supports Link Aggregation
 - 802.3ad Link Aggregation Control Protocol (LACP)
 - Cisco ether-channel (static trunk)
 - Maximum 14 trunk groups, up to 4 ports per trunk group
 - Up to 80Gbps bandwidth (full duplex mode)
- Provides port mirror (many-to-1)
- Port mirroring to monitor the incoming or outgoing traffic on a particular port
- · Loop protection to avoid broadcast loops
- · Supports ERPS (Ethernet Ring Protection Switching)

Layer 3 IP Routing Features

- · Supports maximum 128 static routes and route summarization
- IP dynamic routing protocol supports OSPFv2
- · Routing interface provides per VLAN routing mode

Quality of Service

- Ingress Shaper and Egress Rate Limit per port bandwidth control
- · 8 priority queues on all switch ports
- Traffic classification



Unique PoE Management Features

The WS-2864PVR has a built-in L2/L4 Gigabit Switching engine and 24 10/100/1000BASE-T ports featuring 36-watt 802.3at PoE+, with a total power budget of up to 400W for different kinds of PoE applications. It perfectly meets the power requirements of PoE Wi-Fi access points including dual-band or outdoor high-power AP/CPE with high power consumption. As a managed PoE switch for stable and reliable wireless AP operation, the WS-2864PVR features the following intelligent PoE management functions:

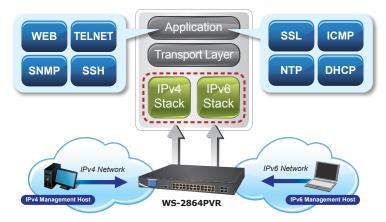
- PD alive check
- Scheduled power recycling
- PoE schedule
- PoE usage monitoring

Layer 3 Routing Support

The WS-2864PVR enables the administrator to conveniently boost network efficiency by configuring Layer 3 IPv4/IPv6 VLAN static routing manually, and the OSPFv2 (Open Shortest Path First) settings automatically. The OSPF is an interior dynamic routing protocol for autonomous system based on link state. The protocol creates a database for link state by exchanging link states among Layer 3 switches, and then uses the Shortest Path First algorithm to generate a route table based on that database.

IPv4/IPv6 Dual Stack Management Network

The WS-2864PVR offers IPv4/IPv6 VLAN routing feature which allows to crossover different VLANs and different IP addresses for the purpose of having a highly-secure, flexible management and simpler networking application. With the support for IPv6/IPv4 protocol, and user-friendly management interfaces, the WS-2864PVR is the best choice for system integrators to migrate network infrastructure from the IPv4 to the IPv6 network. It also helps SMBs to step in the IPv6 era with the lowest investment and without having to replace the network facilities even though ISPs establish the IPv6 FTTx edge network.



Optimal Redundant Ring for Faster Recovery of Managed Network

The WS-2864PVR supports redundant ring technology and features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced ITU-T G.8032 ERPS (Ethernet Ring Protection Switching) technology, and Spanning Tree Protocol (802.1w RSTP) into customer's network to enhance system reliability and uptime in harsh environments. In a certain simple ring network, the recovery time could be less than 50ms to quickly bring the network back, thus enabling the management network to keep on operating.

- IEEE 802.1p CoS
- TOS/DSCP/IP Precedence of IPv4/IPv6 packets
- IP TCP/UDP port number
- Typical network application
- · Strict priority and Weighted Round Robin (WRR) CoS policies
- · Supports QoS and In/Out bandwidth control on each port
- · Traffic policing on the switch port
- · DSCP remarking

Multicast

- Supports IGMP Snooping v1, v2 and v3
- · Supports MLD Snooping v1 and v2
- · Querier mode support
- · IGMP Snooping port filtering
- · MLD Snooping port filtering
- · Multicast VLAN Registration (MVR) support

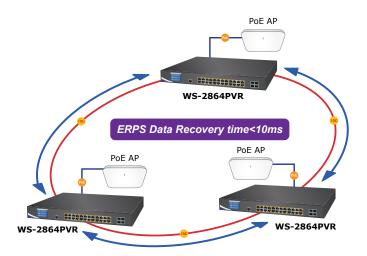
Security

- · Authentication
 - IEEE 802.1x Port-based/MAC-based network access authentication
 - Built-in RADIUS client to co-operate with the RADIUS servers
 - TACACS+ login users access authentication
 - RADIUS/TACACS+ users access authentication
- · Access Control List
 - IP-based Access Control List (ACL)
 - MAC-based Access Control List
- · Source MAC/IP address binding
- DHCP Snooping to filter untrusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
- IP Source Guard prevents IP spoofing attacks
- · Auto DoS rule to defend DoS attack
- IP address access management to prevent unauthorized intruder

Management

- · IPv4 and IPv6 dual stack management
- · Switch Management Interfaces
 - Console/Telnet Command Line Interface
 - 2.4" inch LCD touch screen
 - Web switch management





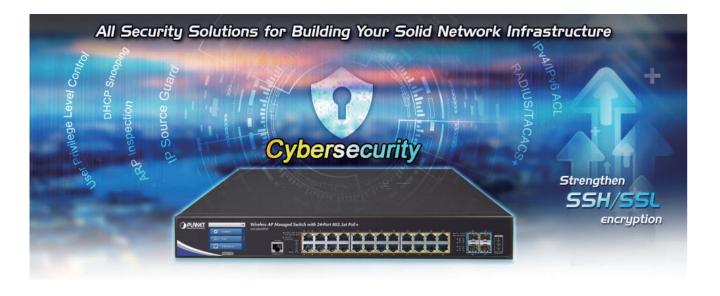
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Cybersecurity Network Solution to Minimize Security Risks

The cybersecurity feature included to protect the switch management in a mission-critical network virtually needs no effort and cost to install. Both SSH and SSL protocols are utilized to provide strong protection against advanced threats. The network administrator can now construct highly-secure corporate networks with considerably less time and effort than before.

- SNMP v1, v2c, and v3 switch management
- SSH/SSL secure access
- IPv6 IP Address/NTP/DNS management
- Built-in Trivial File Transfer Protocol (TFTP) client
- · BOOTP and DHCP for IP address assignment
- · System Maintenance
 - Firmware upload/download via HTTP/TFTP
 - Reset button for system reboot or reset to factory default
 - Dual Images
- DHCP Relay
- DHCP Option82
- · User Privilege levels control
- NTP (Network Time Protocol)
- · Link Layer Discovery Protocol (LLDP) and LLDP-MED
- · Network Diagnostic
 - ICMPv6/ICMPv4 Remote Ping
 - Cable Diagnostic technology provides the mechanism to detect and report potential cabling issues
- · SMTP/Syslog remote alarm
- · Four RMON groups (history, statistics, alarms and events)
- · SNMP trap for interface Linkup and Linkdown notification
- · System Log
- · PLANET Smart Discovery Utility for deployment management



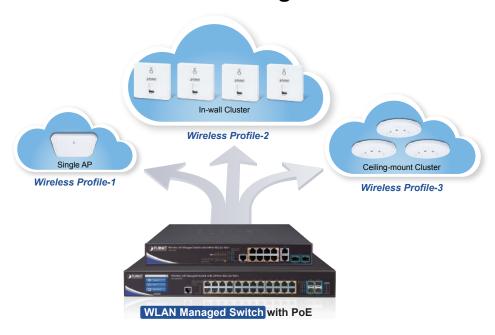


Applications

Centralized AP Management for Enterprises

PLANET WS-2864PVR Wireless AP Managed Switch helps service providers and IT managers control all wireless APs at the same time. The WS-2864PVR enables administrators to effectively manage wireless access points deployed in different locations. The administrator can automatically locate, configure, update and monitor all the managed APs through one single browser-based web user interface, without having to configure the wireless APs one by one.

AP Cluster Management



Cost-effective PoE Management Solution with Smart AP Control

The WS-2864PVR, providing 24 10/100/1000BASE-T PoE ports, in-line power interfaces and four 10 Gigabit SFP interfaces, is capable to build a secure and highly-efficient managed wireless network for the enterprises. For instance, it can work with the RADIUS server to perform a comprehensive security for wireless user authentication with powered APs.



Specifications

| • | |
|--|---|
| Product | WS-2864PVR |
| Hardware Specifications | |
| Copper Ports | 24 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports |
| SFP/mini-GBIC Slots | 4 10GBASE-SR/LR SFP+ interfaces (Port-25 to Port-28) Compatible with 1000BASE-SX/LX/BX SFP transceiver |
| PoE Injector Port | 24 ports with 802.3at/af PoE injector function with Port-1 to Port-24 |
| Console | 1 x RJ45 serial port (115200 , 8, N, 1) |
| Switch Architecture | Store-and-Forward |
| Switch Fabric | 128Gbps/non-blocking |
| Throughput | 95.23Mpps@ 64Bytes packet |
| Address Table | 16K entries, automatic source address learning and aging |
| Shared Data Buffer | 32Mbits |
| Sildred Data Bullet | IEEE 802.3x pause frame for full duplex |
| Flow Control | Back pressure for half duplex |
| Jumbo Frame | 10KB |
| Reset Button | < 5 sec: System reboot |
| Neset Button | > 5 sec: Factory default |
| LED | System: SYS (Green) AC/PWR (Green) DC (Green) Fan1/2/3 Alert (Red) PoE PWR Alert (Red) PoE Ethernet Interfaces (Port-1 to Port-24): PoE-in-use (Orange) Ethernet Interfaces (Port-1 to Port-24): 1000 LNK/ACT (Green), 10/100 LNK/ACT (Orange) 1/10G SFP+ Interfaces (Port-25 to Port-28): |
| | 1G (Green), 10G (Orange) |
| Power Requirements | 100~240V AC, 50/60Hz |
| Power Consumption (Full Loading) | AC: Max. 488 watts/1665.13 BTU DC: Max. 36.6 watts/124.88 BTU |
| ESD Protection | 6KV DC |
| EFT Protection | 4KV |
| Dimensions (W x D x H) | 440 x 300 x 56 mm, 1.25U height |
| Weight | 4675g |
| AP Management | |
| Maximum Managed APs | 64 |
| Maximum AP Groups | 10 |
| Maximum APs per AP Group | 64 |
| AP Auto Discovery | ■ WEP encryption security ■ WPA Personal / Enterprise (TKIP / AES) ■ WPA2 Personal / Enterprise (TKIP / AES) ■ Enterprise Class 802.1x |
| AP Auto Discovery | Supports AP auto discovery |
| Dashboard | Summarized system overview includes online AP and activated client number |
| SSID/RF Profile | Allows multiple wireless profiles creation and maintenance |
| Cluster Management | Allows AP grouping for bulk provisioning and batch upgrading |
| Bulk AP Provisioning | Supports bulk AP provisioning with user-defined profiles |
| Bulk AP Firmware Upgrade | Supports bulk AP firmware upgrade |
| Coverage Heat Map | Enables real signal coverage of managed AP reflecting on the uploaded zone maps |
| Status Monitoring | Real-time traffic statistics reporting of AP and activated clients |
| Graphical Statistics | Real-time and historical visibility of traffic flow |
| · | |
| Profile Backup/Restore | Provides SSID, radio profile backup/restore |
| SSIDs-to-VLANs Mapping Compatible AP Models | Allows to configure SSIDs-to-VLANs mapping in supported APs ■ Managed AP Series ■ Smart AP E Series ■ Smart AP OE Series ■ Smart AP OW Series |
| Remarks | The supported AP models may be changed after a firmware upgrade. The following AP models are classified according to their specifications: [1] Managed AP Series: The AP can be managed in the "Managed AP" mode. [2] Smart AP E Series: "E" stands for "Enhanced", meaning indoor smart AP with enhanced features. [3] Smart AP OE Series: "OE" stands for "Outdoor Enhanced", meaning outdoor smart AP with enhanced features. [4] Smart AP OW Series: "OW" stands for "Outdoor Wireless", meaning outdoor smart AP/CPE. |



| Power over Etherne | et | |
|---------------------|-----------------|---|
| PoE Standard | | IEEE 802.3at PoE Plus, PSE |
| PoE Power Supply | Туре | End-span |
| PoE Power Output | | Per port 54V DC, max. 36 watts |
| Power Pin Assignm | ent | End-span: 1/2(-), 3/6(+) |
| PoE Power Budget | | 400 watts (max.) @ 25 degrees C |
| . oz . ono. zaagot | PD @ 7 watts | 24 units |
| DoE Ability | PD @ 15.4 watts | 24 units |
| PoE Ability | _ | |
| | PD @ 30.8 watts | 13 units |
| Layer2 Managemer | | |
| Basic Management | Interfaces | Console; Web browser; SNMP v1, v2c |
| Secure Managemer | nt Interfaces | SSH, SSL, SNMP v3 |
| Port Configuration | | Port disable/enable Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow Control disable/enable |
| Port Status | | Display each port's speed duplex mode, link status, flow control status, auto negotiation status, trunk status |
| | | TX/RX/Both |
| Port Mirroring | | Many-to-1 monitor |
| VLAN | | 802.1Q tag-based VLAN, up to 255 VLAN groups Q-in-Q tunneling Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN WVR (Multicast VLAN Registration) Up to 255 VLAN groups, out of 4095 VLAN IDs |
| Link Aggregation | | IEEE 802.3ad LACP (static trunk) Supports 14 trunk groups with 4 ports per trunk |
| QoS | | Traffic classification based, strict priority and WRR 8-level priority for switching - Port number - 802.1p priority - 802.1Q VLAN tag - DSCP/TOS field in IP packet |
| IGMP Snooping | | IGMP (v1/v2/v3) Snooping, up to 255 multicast groups IGMP Querier mode support |
| MLD Snooping | | MLD (v1/v2) Snooping, up to 255 multicast groups MLD Querier mode support |
| Access Control List | | IP-based ACL/MAC-based ACL Up to 256 entries |
| Bandwidth Control | | Per port bandwidth control Ingress: 100Kbps~1000Mbps Egress: 100Kbps~1000Mbps |
| SNMP MIBs | | RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2665 Ether-Like MIB RFC 2737 Entity MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2618 RADIUS Client MIB RFC 3411 SNMP-Frameworks-MIB IEEE 802.1X PAE LLDP MAU-MIB Power over Ethernet MIB |
| Layer 3 Functions | | |
| IP Interfaces | | Max. 128 VLAN interfaces |
| Routing Table | | Max. 128 routing entries |
| oug Tublo | | |
| Routing Protocols | | IPv4 OSPFv2 IPv4 hardware static routing IPv6 hardware static routing |



| Standards Conformance | |
|-----------------------|---|
| Regulatory Compliance | FCC Part 15 Class A, CE |
| Standards Compliance | IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3u 100BASE-TX IEEE 802.3u 100BASE-TX IEEE 802.3u 100BASE-T IEEE 802.3u 100BASE-T IEEE 802.3u 100BASE-T IEEE 802.3u 10Cb/s Ethernet IEEE 802.3u 10cb/s Ethernet IEEE 802.3u 10cb/s Ethernet IEEE 802.3u 10cb/s Ethernet IEEE 802.1u Spanning Tree Protocol IEEE 802.1v Rapid Spanning Tree Protocol IEEE 802.1v Land Spanning Tree Protocol IEEE 802.1v Port Authentication Network Control IEEE 802.1u VLAN tagging IEEE 802.1u Port Authentication Network Control IEEE 802.3af Power over Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 FRG 3810 MLD v2 |
| Environments | RFC 2328 OSPF v2 |
| LIVIIOIIIIGIII | Tomporature: 0. F0 degrees C |
| Operating | Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing) |
| Storage | Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing) |

Ordering Information

| MIC COCADVD | Wireless AP Managed Switch with 24-Port 802.3at PoE + 4-Port 10G SFP+ + LCD Touch Screen and 48VDC |
|-------------|--|
| WS-2864PVR | Redundant Power |

Related Products

| WAPC-500 | Enterprise-class Wireless LAN Controller supporting up to 500 APs (4 10/100/1000T LAN, LCD) |
|------------------|--|
| WAPC-1000 | Enterprise-class Wireless LAN Controller supporting up to 1000 APs (4 10/100/1000T LAN, LCD) |
| WAPC-1232HP | Wireless AP Controller with 8-Port 802.3at PoE+ |
| WS-1232P | Wireless AP Managed Switch with 8-Port 802.3at PoE + 2-Port 10G SFP+ |
| Smart AP Control | PLANET Smart Wireless AP Controller Software |
| CS-950 | UTM Content Security Gateway |
| WDAP-C7200E | 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point |
| WNAP-C3220E | 2.4GHz 300Mbps 802.11n Ceiling-mount Wireless Access Point |
| WNAP-W2200UE | 2.4GHz 300Mbps 802.11n In-Wall Wireless Access Point w/USB Charger |
| WDAP-W7200AC | 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point |
| WNAP-C3220A | 2.4GHz 300Mbps 802.11n Ceiling-mount Wireless Access Point |
| WNAP-W2201A | 2.4GHz 300Mbps 802.11n In-Wall Wireless Access Point |
| WDAP-802AC | 1200Mbps Dual Band 802.11ac Outdoor Wireless AP |
| WDAP-702AC | 1200Mbps Dual Band 802.11ac Outdoor Wireless AP |
| WAP-252N | 2.4GHz 802.11n 300Mbps Outdoor Wireless AP |
| WBS-200N | 2.4GHz 300Mbps 802.11n Outdoor Wireless CPE |
| WBS-202N | 2.4GHz 300Mbps 802.11n Outdoor Wireless CPE |
| WAP-552N | 5GHz 802.11a/n 300Mbps Outdoor Wireless AP |
| WBS-502N | 5GHz 300Mbps 802.11n Outdoor Wireless CPE |
| WBS-502AC | 5GHz 900Mbps 802.11ac Outdoor Wireless CPE |



Available 10Gbps Modules

| MTB-SR | 10GBASE-SR mini-GBIC module - 300m |
|----------|--|
| MTB-LR | 10GBASE-LR mini-GBIC module – 10km |
| MTB-LA20 | 10GBASE-LX (WDM,TX:1270nm) mini-GBIC module - 20km |
| MTB-LB20 | 10GBASE-LX (WDM,TX:1330nm) mini-GBIC module - 20km |
| MTB-LA40 | 10GBASE-LX (WDM,TX:1270nm) mini-GBIC module - 40km |
| MTB-LB40 | 10GBASE-LX (WDM,TX:1330nm) mini-GBIC module - 40km |
| MTB-LA60 | 10GBASE-LX (WDM,TX:1270nm) mini-GBIC module - 60km |
| MTB-LB60 | 10GBASE-LX (WDM,TX:1330nm) mini-GBIC module - 60km |

Available 1000Mbps Modules

| MGB-GT | SFP-Port 1000BASE-T Module |
|----------|--|
| MGB-SX | SFP-Port 1000BASE-SX mini-GBIC module |
| MGB-LX | SFP-Port 1000BASE-LX mini-GBIC module |
| MGB-L30 | SFP-Port 1000BASE-LX mini-GBIC module - 30km |
| MGB-L50 | SFP-Port 1000BASE-LX mini-GBIC module - 50km |
| MGB-L70 | SFP-Port 1000BASE-LX mini-GBIC module - 70km |
| MGB-L120 | SFP-Port 1000BASE-LX mini-GBIC module - 120km |
| MGB-LA10 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 10km |
| MGB-LB10 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 10km |
| MGB-LA20 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 20km |
| MGB-LB20 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 20km |
| MGB-LA40 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 40km |
| MGB-LB40 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 40km |
| MTB-LA60 | 10GBASE-LX (WDM,TX:1270nm) mini-GBIC module - 60km |
| MTB-LB60 | 10GBASE-LX (WDM,TX:1330nm) mini-GBIC module - 60km |

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