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Refurbished CISCO PWR-2801-AC Datasheet

CISCO > INTERFACES-MODULES

Cisco 1800 Series Integrated Services Routers

Architecture, Features, and Benefits of 4- and 9-Port Cisco EtherSwitch HWICs

Feature	Benefit
4 or 9 10BASE-T/100BASE-TX Ports	These ports deliver up to 200 Mbps of aggregate bandwidth (full duplex) for forwarding Layer 2 traffic on each port.
Autosensing, Autonegotiation, and Auto-MDIX (Automatic Media-Dependant Interface Crossed Over)	The Autosensing feature allows the switch to detect the speed of the attached device and automatically configure the port for 10- or 100-Mbps operation. The Autonegotiation feature allows the switch to automatically select half- or full-duplex transmission mode to optimize bandwidth on all the ports of the HWIC The Auto-MDIX feature allows the switch to automatically detect cable type (straight through vs. crossover) between the attached Ethernet device and switch line pairs.
Integrated Switching	Integrated switching provides fewer points of management for remote and small branch offices.
802.1P QoS (Traffic Prioritization)	This feature provides support for QoS based on the IEEE class of service (CoS) and port-based prioritization, allowing the switch to change the CoS settings of tagged packets on a per-port basis.
802.1Q Trunking	This feature allows the setup of separate VLANs with tagged and untagged framing; trunking is used to save ports when creating a link between two devices implementing VLANs; VLANs allow segmentation of the LAN.
802.1D Spanning Tree Protocol	This Layer 2 link-management protocol provides path redundancy while preventing undesirable loops in the network; it simplifies network configuration and improves fault tolerance.
Voice VLAN (VVLAN)	VVLANs help enable Cisco IP phones to place voice and data in their own separate VLANs. The HWIC switch port is manually configured as a trunk port to support voice and data VLANs on the same port. The switch then uses Cisco Discovery to dynamically configure the Cisco IP phones.
802.1x Authentication	This client-server-based access control and authentication protocol restricts unauthorized devices from connecting to a LAN through publicly accessible ports.
PoE (Option)	Cisco EtherSwitch technology with the appropriate inline power module and internal power supply can power Cisco IP phones and wireless access points. Support is provided for both IEEE 802.3af PoE and Cisco prestandard inline powered devices. The ninth port of the 9-port HWIC (part number HWIC-D-9ESW-POE) cannot be used for PoE applications. The PoE option is not available on the Cisco 1841 router.
Multicast Management Support	This feature offers Internet Group Management Protocol (IGMP) snooping in hardware for management support.
Simple Network Management Protocol (SNMP) Management	SNMP allows management of the MIB through a MIB browser.
Cisco IOS Software Command-Line Interface (CLI)	This feature provides configuration through the Cisco IOS Software CLI and provides a common user interface for all the router functions.
CiscoWorks Support	CiscoWorks network management software helps enable manageability on a per-port and per-switch basis, providing a common management interface for Cisco routers, switches, and hubs. SNMPv1, v2, and v3 (noncryptographic) and Telnet interface support delivers comprehensive in-band management, and a CLI management console provides detailed out-of-band management. Cisco Discovery Protocol Versions 1 and 2 help enable a CiscoWorks network management station to automatically discover the switch in a network topology. Support is provided by the CiscoWorks LAN Management Solution.
Cisco Discovery Protocol Versions 1 and 2	This protocol enables a CiscoWorks network management station to automatically discover the switch in a network topology.
VLAN Trunking Protocols (Client, Server, and Transparent Modes)	The Cisco Virtual Lan Trunking Protocol (VTP) supports dynamic VLAN configuration across Cisco switches.
Cisco Secure Router and Device Manager (SDM)-Based Configuration	This feature simplifies initial configuration of a switch through a Web browser, eliminating the need for more complex terminal emulation programs and CLI knowledge.

and Device Management	Cisco SDM reduces the cost of deployment by helping less-skilled personnel set up switches quickly and simply.
Status LEDs	Two LEDs per port provide convenient visual indication of the switch port and inline power status.

Product Specifications of 4- and 9-Port Cisco EtherSwitch HWICs (HWIC-4ESW, HWIC-4ESW-POE, HWIC-D9ESW, and HWIC-D-9ESW-POE)

Feature

Feature	Benefit
Target Applications	Data, voice, and video
Supported Router Platforms	Cisco 1800 (modular), Cisco 2800, and Cisco 3800 series integrated services routers: Cisco 1841 (supports HWIC-4ESW only; no PoE support) Cisco 2801 Cisco 2811 Cisco 2821 Cisco 2851 Cisco 3825 Cisco 3845 Cisco 1941 Cisco 2901 Cisco 2911 Cisco 2921 Cisco 2951 Cisco 3925 Cisco 3945
Form Factor	HWIC-4ESW = Single-wide HWIC form factor HWIC-D-9ESW = Double-wide HWIC form factor
Dimensions (W x D x H)	HWIC-4ESW = 3.08 x 4.74 x 0.76 in. HWIC-D-9ESW = 6.20 x 4.74 x 0.76 in.

Power Requirements

Internal Power Supply	Optional PoE system power supply available for all Cisco 2800 and Cisco 3800 series routers
External Redundant Power Supply (RPS2300)	Optional for the Cisco 2800 series and Cisco 2900 Series routers
Internal Redundant Power Supply	For the Cisco 3845, 3925 and 3945 router only
DC Power Support	DC system power input available on the Cisco 2811/2911, Cisco 2821/2921, Cisco 2851/2951, Cisco 3825/3925, and Cisco 3845/3945 routers; PoE option not available with DC system power input

Environmental

Operating Temperature	32 to 104°F (0 to 40°C)
Operating Humidity	10 to 85% noncondensing operating; 5 to 95% noncondensing, nonoperating
Nonoperating Temperature	-4 to 149°F (-20 to 65°C)
Operating Altitude	(Moderate 1.5°C per 1000 feet)
Regulatory Compliance, Safety, EMC	When installed in a Cisco 1841, Cisco 2800, or Cisco 3800 router, the Cisco EtherSwitch HWIC meets the standards (regulatory compliance, safety, EMC) of the router itself. Refer to the data sheets for the Cisco 1841, Cisco 2800, and Cisco 3800 series routers for more details

Minimum Supported Cisco IOS Software Release

Integrated Services Router Version

Integrated Services Router Version	Minimum Cisco IOS Software Release
Cisco 1800 (Modular) Series	12.3(8)T (fourth release of Cisco IOS Software Release 12.3T): IP Base Image
Cisco 2800 Series	12.3(8)T (fourth release of Cisco IOS Software Release 12.3T): IP Base Image
Cisco 3800 Series	12.3(11)T (fifth release of Cisco IOS Software Release 12.3T): IP Base Image
Cisco 1941	15.0(1)M: IP Base License of the Universal Image

Cisco 2900 Series	15.0(1)M: IP Base License of the Universal Image
Cisco 3900 Series	15.0(1)M: IP Base License of the Universal Image

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