

PacStar 446

26-Port Gigabit Switch Module



Key Features

- Based on Cisco Embedded Services Switch (ESS) 3300 with (2) 10 GigE SFP+ and (24) GigE RJ45 ports
- Industry-leading size, weight and power (SWaP) provides customers maximum flexibility when integrating into programs where mobility and deployment speeds are critical
- Extended temperature range and fanless design improves reliability and uptime
- Extensively tested to MILSTD- 810/461 by independent labs. Reports available on request. For more information, see: pacstar.com/testing/
- Integrated smart power supply that runs on and recharges tactical radio batteries, wide range DC input and worldwide AC input
- Compact, snap-together design enables quick expansion with other PacStar 400-Series modules and packaging solutions
- Continuous runtime with hotswappable batteries
- Small, but powerful: only 5.3"x 7.0" x 3.4" and 5 lbs

Based on Cisco Embedded Services Switch (ESS) 3300, PacStar® 446 provides high-density network access at Gigabit speeds for critical voice, data, and video connectivity in a compact, rugged form-factor.

PacStar 446 enables networking for a wide variety of edgebased C5ISR, cybersecurity, sensor, IoT, computing, and storage applications - connecting multiple devices to mission-critical tactical, ground-vehicle, and aircraft-mounted communications networks deployed in the field. PacStar 446 is ideal for use in environments requiring specialized form-factor, size, weight, power, port-density, port-media, and ruggedized communications needs.

Designed from the ground up to provide flexible deployment, configuration and setup options, PacStar 446 can be used as follows:

- Included in a modular, flexible system comprised of PacStar 400-Series modules, mounted in a variety of packaging and transport options solutions
- In snap-together configurations with other PacStar 400-Series modules including switches, servers, and gateways
- To provide high-speed switching infrastructure between servers and storage devices performing data intensive tasks in expeditionary settings
- As standalone switch module

PacStar offers a variety of system packaging and transport options for its PacStar 400-Series, including Pelican Case, Mini-Transit Case, Smart Chassis, Desktop Chassis, and Rack Mount Systems. The flexible modules, together with the wide range of packaging options, enables PacStar to deliver leading-edge customized, complete solutions that are reconfigurable in the field.

Networking Capabilities

- Cisco IOS XE software
- (26) Ethernet ports total
- Layer 2 switching - IEEE 802.1, 802.3 standard, VTPv2, NTP, UDLD, CDP, LLDP, unicast MAC filter
- Security - SCP, SSHv2, SNMPv3, TACACS+, RADIUS server/client, MAC address notification, BPDU guard, SPAN session, port security, DHCP snooping, dynamic ARP inspection, IP Source Guard, 802.1x, guest VLAN. MAC authentication bypass, 802.1x multi-domain authentication, storm control, trust boundary
- Multicast - IGMPv1, v2, v3 snooping, IGMP filtering, IGMP querier
- Management - web device manager, MIB, SmartPort, SNMP, Syslog
- Quality of Service - ingress policing, ratelimit, egress queuing/shaping, AutoQoS
- IPv6 host support, HTTP over IPv6, SNMP over IPv6

Connectors

- (26) Ports Total:
 - (13) RJ45 (10/100/1000 Base-T Ethernet)
 - (11) RJ45 (100/1000 Base-T Ethernet with PacStar PoE Plus)
 - (2) SFP+ (10/100/1000/10000 Base-T Ethernet)
- (1) RS-232 console port
- Wide range DC input
- 12V DC output connector, KG-250X/XS compatible
- Radio battery and PacStar 400-Series power snap-together connector
- MicroSD card slot for input/export/storage of configurations

Physical Specifications

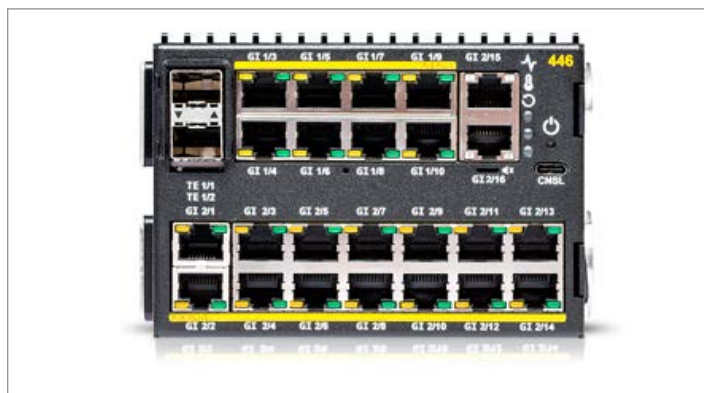
- Dimensions 5.3" x 7.0" x 3.4"
- Weight 5 lbs
- Snap together connector provides DC pass-through for powering additional PacStar 400 modules
- Fanless design for quiet operation, high reliability and low power draw
- Operational temperature -20C to 70C
- Tested to MIL-STD 810 (contact PacStar for more details)
- Includes zeroize button and over temperature indicator
- Lights-out mode

Power Specifications

- Battery snap-together connectors for 2 each AN/PRC-152/148 snap on radio batteries; hot-swappable with 2+ hours runtime per battery. Includes battery recharging, dead battery recovery, and low battery alarm
- Wide range DC input, 10-35V
- Worldwide AC power input (with adapter cable)
- Regulated clean 12V DC output, 25 watts (supports devices such as KG-250X/XS or KG-175D)
- PoE Plus power:
 - Up to 60 watts available PoE power*
 - 11 ports PoE 802.3at Type 2 backward compatible with 802.3af
- Power draw: nominal 25 watts, 85 watts total (including PoE load)

* Reduced operational temp limit when providing maximum PoE power

PacStar products are covered by multiple patents. Additional patent(s) pending. See www.pacstar.com/patents for details.



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Network Essentials License	Description
Layer 2 switching	IEEE 802.1, 802.3 standard, NTP, UDLD, CDP, LLDP, unicast MAC filter, VTPv2, VTPv3, EtherChannel, voice VLAN, PVST+, MSTP, and RSTP
Multicast	IGMPv1, v2, v3 snooping, IGMP filtering, IGMP querier
Management	Web UI, MIB, SmartPort, SNMP, syslog, DHCP server, SPAN session (1), Full Flexible Netflow (FnF), NETCONF, RESTCONF
Security	Port security, 802.1x, Dynamic Host Configuration Protocol (DHCP) snooping, dynamic ARP inspection, IP source guard, guest VLAN. MAC authentication bypass, 802.1x multidomain authentication, storm control - unicast, multicast, broadcast, SCP, SSH, SNMPv3, TACACS+, RADIUS server/client, MAC address notification, BPDU guard, MACsec-128, Central Web Authentication (Redirection), ARP Snooping
Quality of service	Ingress policing, rate limit, egress queuing/shaping, autoQoS
Layer 2 IPv6	IPv6 host support, HTTP over IPv6, SNMP over IPv6
Redundancy Protocols	Resilient Ethernet Protocol (REP)
Network Advantage License	Description
Network Advantage License	IOSPF (V2 and V3), RIP (V1 and V2), ISIS (for IPv4 and IPv6), EIGRP (for IPv4 and IPv6), PBR (Policy Based Routing)
IP routing	VRF-lite
Virtualization	Web UI, MIB, SmartPort, SNMP, syslog, DHCP server, SPAN session (1), Full Flexible Netflow (FnF), NETCONF, RESTCONF
Security	MACsec-256
Security	PIM sparse mode (PIM-SM), PIM dense mode (PIM-DM) and PIM Sparse dense mode
IP Multicast	Bidirectional Forwarding Detection (BFD) echo mode, HSRP (IPv4 and IPv6), VRRP (IPv4 and IPv6)

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