

PacStar 444 Small GigE Switch Module

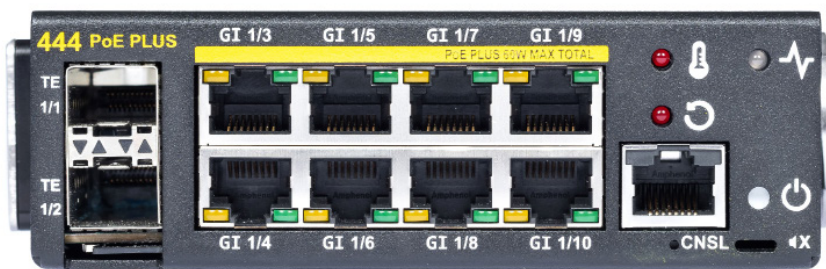
PacStar 444 provides high-density network access at Gigabit speeds for critical voice, data, and video connectivity in a compact, rugged form factor

PacStar 444 enables networking for a wide variety of edge-based C5ISR, cybersecurity, sensor, IoT, computing, and storage applications. It connects multiple devices to mission-critical tactical, ground-vehicle, and aircraft-mounted communications networks deployed in the field. PacStar 444 is ideal for use in environments requiring specialized form factor, size, weight, and power (SWaP), port density, port media, and ruggedized communications needs.

Designed from the ground up to provide flexible deployment, configuration, and setup options, PacStar 444 can be used as follows:

- As a standalone switch module
- Included in a modular, flexible system comprised of PacStar 400-Series modules, mounted in a variety of packaging and transport options
- 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

The module integrates seamlessly with other PacStar 400-Series standard small form factor modules, providing the best in small size, flexible power, and environmental ruggedness. PacStar also offers a wide array of system packaging options for PacStar 400-Series, including briefcase, transit case, rack-mount, vehicle-mount, and backpack transport options.



Key Features

- **Based on Cisco Embedded Services (ESS) 3300** with (2) 10 GigE SFP+ (8) 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
- **Extensively tested** to MIL-STD-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
- **Patented, compact snap-together design** enables quick expansion with other PacStar 400-Series modules
- **Optionally managed by IQ-Core[®] Software** for easy setup and configuration
- **Extended temperature range and fanless design** improves reliability and uptime
- **Continuous runtime** with hot-swappable batteries
- **Small, but powerful;** only 5.3" x 7.0" x 1.6" and 2.5 lbs.

Hardware Specifications

- 4-GB DDR4 RAM
- 4-GB eMMC flash storage

Software Specifications

- Cisco IOS XE software
- Available technology packages: Network Essentials and Network Advantage

Networking Capabilities

- (10) 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, rate limit, egress queuing/shaping, AutoQoS
- IPv6 host support, HTTP over IPv6, SNMP over IPv6
- IPv4 static routing

Connectors

- (10) ports total:
 - (4) RJ45 (10/100/1000 Base-T Ethernet)
 - (4) RJ45 (100/1000 Base-T Ethernet with PacStar PoE Plus)
 - (2) SFP+ 10G
- (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

The Cisco ESS-3000 Series is included on the Department of Defense Information Network (DoDIN) Approved Products List (APL). [Read the memo.](#)

PacStar 444 with Cisco ESS 3300 is eligible to be used as a MACsec encryptor in a CSfC solution. More information can be found at www.nsa.gov.

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

Physical Specifications

- Dimensions 5.3" x 7.0" x 1.6"
- Weight 2.5 lbs.
- Snap-together connector provides DC pass-through for powering additional PacStar 400-Series modules
- Fanless design for quiet operation, high reliability, and low power draw
- Operational temperature -20C to 60C
- Extensively tested to MIL-STD-810/461 by independent labs. Reports available on request. For more information, see: pacstar.com/testing/
- Includes zeroize button and over-temperature indicator
- RoHS compliant

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
- Power draw: Nominal 20 watts total (plus PoE load)
- Locking power input connector to prevent accidental disconnection
- Power input specifications available for creating custom cables with industry-standard parts
- Available marked chassis ground for external grounding

* Reduced operational temp limit when providing maximum PoE power

