

PacStar 444 Small GigE Switch Module

Based on Cisco Embedded Services Switch (ESS) 3300, 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 C4ISR, 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 444 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 444 can be used as follows:

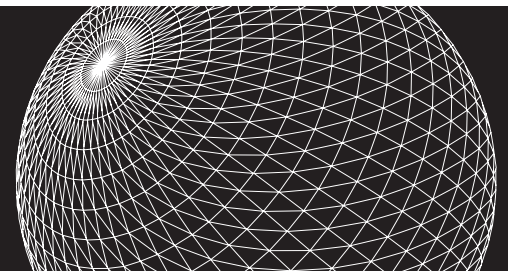
- Included in a modular, flexible system comprised of PacStar 400-Series modules, mounted in a variety of packaging and transport options solutions
- In snap-together configurations with the other PacStar 400-Series modules including switches, servers and gateways
- To provide high speed switching infrastructure 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.



Key Features

- **Based on Cisco Embedded Services Switch (ESS) 3300** with (2) 10 GigE SFP and (8) GigE RJ-45 ports
- **Industry-leading size, weight and power (SWaP)** provides customers maximum flexibility when integrating into programs where mobility and deployment speeds are critical
- **Designed to meet MIL-STD 810G, MIL-STD-461F and MIL-STD-704D standards** for environmental, EMI and power (*testing by independent labs pending*)
- **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
- **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.



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 (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

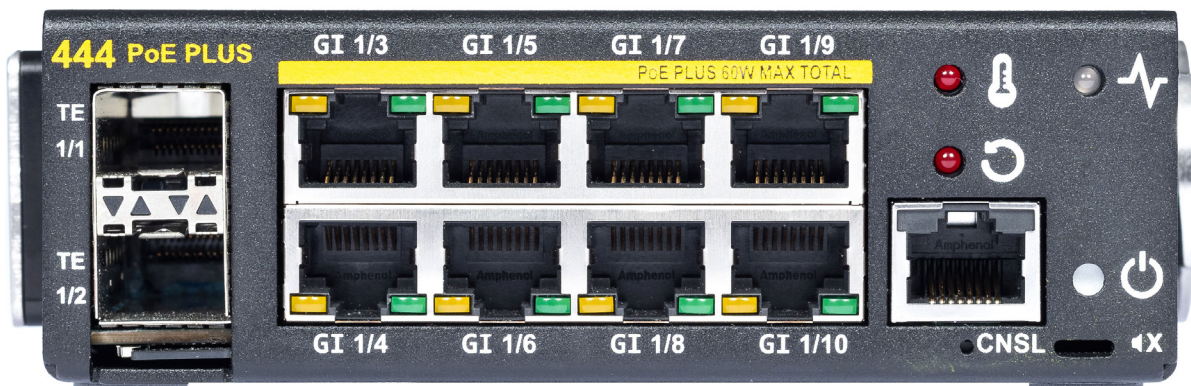
Physical Specifications

- Dimensions 5.3" x 7.0" x 1.6"
- Weight 2.5 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 environmental MIL-STD 810G by independent labs (pending)
- Tested for EMI MIL-STD 461F by independent labs (pending)
- Tested to power MIL-STD-704D by independent labs (pending)
- Includes zeroize button and over temperature indicator

Power

- 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 and dead battery recovery, and low battery alarm
- Wide range DC input, 10-35V
- World-wide 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)

* Reduced operational temp limit when providing maximum PoE power



PacStar systems including this product may be covered by one or more of the following US patents: #8,654,749, #7,817,589, #8,270,325, #9,160,619, #9,225,102. Additional patent(s) pending. See www.pacstar.com/patents for details.

080618