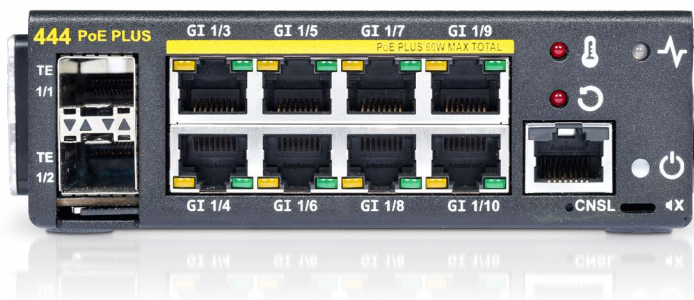




PacStar 444

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

Key Features

- Fully managed multi-layer Ethernet switching in a standards-compliant module
- 20 high-speed Ethernet ports offering 8x 10GBASE-KR and 12x 10GBASE-T interfaces
 - 10GBASE-T ports support 1000BASE-T and 100BASE-TX
 - » IEEE-1588v2 features for PTP
- Includes IEEE-1588v2 features for PTP and accurate time synchronization
- Available in standard air-cooled and conduction-cooled rugged form factors
- Maximum flexibility to connect internal backplane and external twisted pair Ethernet systems and sensors
- Increased connectivity speeds between processing modules and between external systems
- Pin compatible performance upgrade for 1 Gigabit systems

Applications

- Mission computing for manned and unmanned vehicles that fuse and process high-speed sensor data
- Unmanned vehicles that fuse and process high-speed sensor data

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.

Specifications

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

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

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.
- 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



PacStar 444 Small GigE Switch

PacStar 444

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
IP routing	IOSPF (V2 and V3), RIP (V1 and V2), ISIS (for IPv4 and IPv6), EIGRP (for IPv4 and IPv6), PBR (Policy Based Routing)
Virtualization	VRF-lite
Security	Web UI, MIB, SmartPort, SNMP, syslog, DHCP server, SPAN session (1), Full Flexible Netflow (FnF), NETCONF, RESTCONF
Security	MACsec-256
IP Multicast	PIM sparse mode (PIM-SM), PIM dense mode (PIM-DM) and PIM Sparse dense mode
High Availability	Bidirectional Forwarding Detection (BFD) echo mode, HSRP (IPv4 and IPv6), VRRP (IPv4 and IPv6)

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