



PacStar 443

24-port Switch Module

Key Features

- Based on Cisco ESS 2020 switching module with 24 ports
- Integrated smart power supply that runs on tactical radio batteries, wide range DC input and worldwide AC input (with AC/DC brick)
- PoE+ (802.3at Type-2) output
- Patented, compact snaptogether design with the PacStar 400-Series family of modules and packaging solutions
- KG-250X/XS compatible power output port
- Extended temperature range and fanless design improves reliability and uptime
- Managed by Pacstar IQCore Software for easy setup and configuration
- Continuous runtime with hot-swappable batteries
- Small, but powerful; only 5.3" x 7.0" x 3.4" and 4.4 lbs.
- Zeroize Button (Reset to factory configuration)

PacStar® 443 provides high-density network access ports for critical voice, data, and video connectivity in a compact, quick setup, rugged form factor. PacStar 443 uses advanced technology and provides up to 24 ports of LAN access.

Designed from the ground up to provide flexible transport, configuration and setup options, PacStar 443 can be used as follows:

- Used as a standalone switch module
- In snap-together configurations with other PacStar 400-Series modules including switches, servers, and gateways
- Included as part of modular, flexible systems with other PacStar 400-Series modules, mounted in a variety of cases and packaging solutions

PacStar 443 is designed to serve the tactical communication needs of teams that deploy worldwide and have secure communication requirements in austere environments. PacStar 443 enables teams from U.S. DoD, Homeland Security, first responders and civilian organizations to easily connect multiple devices to key communications networks.

PacStar 443 is optionally managed by PacStar IQ-Core® Software, which simplifies system setup, network management and protects the system from mis-configuration by operators in the field.

Specifications

Networking Capabilities

- (24) Ethernet ports total
- Layer 2 switching - IEEE 802.1, 802.3 standard, VTPv2, NTP, UDLD, CDP, LLDP
- Unicast MAC filter, Flex Link, REP, VTPv3, EtherChannel, voice VLAN
- Security - SCP, SSH, 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 multidomain authentication, storm control, trust boundary
- Multicast - IGMPv1, v2, v3 snooping, IGMP filtering, IGMP querier
- Management - web device manager, MIB, SmartPort, SNMP, syslog, storm control - unicast, multicast, broadcast, SPAN sessions (2), RSPAN, DHCP server, customized TCAM/SDM size configuration
- Quality of Service - ingress policing, rate-limit, egress queuing/shaping, AutoQoS
- IPv6 host support, HTTP over IPv6, SNMP over IPv6
- IPv4 static routing

Connectors

- (24) RJ45 Ethernet connectors:
 - (2) 10/100/1000 Gigabit Ethernet
 - (11) 10/100 Fast Ethernet with PoE+
 - (11) 10/100 Fast Ethernet
- 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

Physical Specifications

- Dimensions 5.3" x 7.0" x 3.4"
- Weight 4.4 lbs.
- Snap-together connector provides DC pass-through for powering additional PacStar 400-Series modules (must be first module in the chain)
- Operational temperature -20C to 60C
- Extensively tested to MIL-STD-810 by independent labs. Reports available on request. For more information, see: pacstar.com/testing/.

Power Specifications

- Battery snap-together connectors for 1-2 each AN/PRC-152/148 snap on radio batteries; hot-swappable with 4+ hours runtime per battery (no PoE)
- Wide range DC input, 10-35V
- Worldwide AC power input (with adapter cable)
- Regulated clean 12V DC output, 20 watts (supports KG-250X/XS or KG-175D)
- PoE power:
 - Up to 60 watts available PoE power on AC or DC input
 - 11 ports PoE 802.3at Type 2 backward compatible with 803.3af
- Power draw:
 - Nominal 15 watts with no PoE Load
 - Max 85 watts with maximum supported PoE load



Figure 2: PacStar 443

PacStar 443