



PacStar 443 Large Switch Module



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

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

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

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

The 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.

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+ (802.3 AT Type-2) output
- Snap-together design with the PacStar 400-Series family of products
- KG-250X compatible power output port
- Compact design for flexible packing and transport
- Extended temperature range and fanless design improves reliability and uptime
- Managed by IQ-Core[®] 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 5 lbs.

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 Multi-Domain 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) RJ-45 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 compatible
- Radio battery and PacStar 400-Series power snap-together connector



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 (must be first module in the chain)
- Operational temperature -20C to 60C
- MIL-STD 810G testing planned

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, 10-36V
- World-wide 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
 - 10 ports POE 802.3at Type 2 (PoE) backward compatible with 802.3af
- Power draw:
 - Nominal 100W with no PoE Load
 - Max 95 W with maximum supported PoE load

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.

