



# PacStar 442 Small Switch Module

**ZER(α)ALPHA**  
SOLUTIONS

Authorized distributor of PacStar products



*The PacStar 442 is listed on the Joint Interoperability Test Command (JITC) Approved Products List (APL) as an Assured Services Local Area Network Access Switch*

The PacStar 442 provides high-density network access ports for critical voice, data and video connectivity in a compact, quick setup, rugged form-factor. The PacStar 442 uses advanced Cisco<sup>®</sup> switching technology and provides up to 10 ports of LAN access.

Designed from the ground up to provide flexible transport, configuration and setup options, the PacStar 442 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 442 is designed to serve the tactical communication needs of teams that deploy worldwide and have secure communication requirements in austere environments. The PacStar 442 enables teams from US DoD, Homeland Security, First Responders and civilian organizations to easily connect multiple devices to key communications networks.

PacStar 442 is optionally managed by PacStar IQ-Core<sup>®</sup> 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 routing/switching module with 10 ports
- Integrated smart power supply that runs on tactical radio batteries, wide range DC input and worldwide AC input
- PoE 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 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, Flex Link, REP, VTPv3, EtherChannel, Voice VLAN
- 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 Base-T Ethernet)
  - (4) RJ45 (10/100 Base-T Ethernet with PacStar PoE)
  - (2) RJ45 (10/100/1000 Base-T Ethernet)
- (1) 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 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 MIL-STD 810G by an independent lab
- Tested to MIL-STD 461F by an independent lab

## Power Specifications

- Battery snap-together connectors for 1-2 each AN/PRC-152/148 snap on radio batteries; hot swappable with 5+ hours runtime per battery
- Wide range DC input, 10-35V
- World-wide AC power input (with adapter cable)
- 12/48V combo-DC input (for use with PacStar 4400 CEM)
- Regulated clean 12V DC output, 20 watts (supports KG-250X/XS or KG-175D)
- PoE power:
  - Up to 12 watts available PoE power on AC or DC input
  - On external power input up to 50 watts available PoE power
- Power draw:
  - Nominal 10 watts total
  - Max (including 15 watts of PoE devices attached) 39 watts\* total

\* 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](http://www.pacstar.com/patents) for details.

