



# PacStar 211

## Small Router Module with Cisco ESR 6300

**PacStar® 211 provides high-performance routing, switching and advanced network access for critical voice, data, and video connectivity in a compact, quick-setup, rugged form factor.**

PacStar 211 is based on Cisco® Embedded Services Router (ESR) 6300 and provides 2 GigE (SFP or RJ45) WAN ports and 4 GigE RJ45 ports of PoE LAN access.

Designed from the ground up to provide flexible transport, configuration and setup options, PacStar 211 can be used as follows:

- Included as part of modular, flexible systems with other PacStar 200-Series and 400-Series modules, mounted in a variety of cases and packaging solutions
- In snap-together configurations with other PacStar 200-Series and 400-Series modules including switches, servers, and gateways
- Used as a standalone router/switch module with Power Input Adapter (sold separately)

PacStar 211 is designed to serve the tactical communication needs of teams that deploy worldwide and have secure communication requirements in austere environments. PacStar 211 enables teams from U.S. DoD, homeland security, as well as first responders and civilian organizations to easily and securely connect multiple devices to mission critical communications networks.

PacStar 211 is optionally managed by PacStar IQ-Core® Software, which simplifies system setup, network management and protects the system from misconfiguration by operators in the field.

### Key Features

- Based on Cisco ESR 6300 routing/switching module with (6) Gigabit Ethernet ports
- PoE output
- Extended temperature range and fanless design improves reliability and uptime
- Small, but powerful: only 5.75" x 7.25" x 0.825"
- Zeroize Button (Reset to factory configuration)
- Available with Cisco IOS-XE (Network Essentials or Network Advantage) with 50 Mbps, 250 Mbps, or Boost (350 Mbps) licenses
- Suite-B (CSfC) cryptography with up to 350 Mbps IPsec throughput with Boost license

## 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
- Various throughput performance licenses are available:
  - 50 Mbps encrypted (Default license)
  - 250 Mbps encrypted (Performance license)
  - 350 Mbps encrypted (Boost license)

### I/O Connectors

- (6) Ports total
  - (2) SFP ports
  - (4) (RJ45) GigE switched, with PacStar PoE
- (1) RS-232/WAN console combo port
- (1) USB 3.0 (for configuration backup/loading)

### Physical Specifications

- Dimensions 5.75" x 7.25" x 0.825"
- Weight: 2.0 lbs
- Fanless design for quiet operation, higher reliability, and low power draw
- Operational temperature -20° to 60°C
- Designed to MIL-STD 810 (independent laboratory tests forthcoming)
- Designed to MIL-STD 461
- RoHS compliant

### Networking Capabilities

- (6) ports: (2) routed and (4) switched
- Cisco IOS Service Advertisement Framework (SAF)
- MLD proxy
- Routing protocols - RIP, RIPv2, OSPF, EIGRP, BGP, CPD, IP policy routing, IP Multicast (PIM) v1 and v2, IGMP v1 and v2, IP multicast load splitting, Cisco GMP
- Up to 32 VLANs supported per router
- IPv6 - IPv6 routing, IPv6 QoS, IPv6 tunneling support, Cisco IOS Zone-Based Firewall for IPv6 traffic
- Encapsulations - PPP, PPPoE client and server for Fast Ethernet, 802.1q VLAN trunking support and GRE
- Additional protocol support - Telnet, asynchronous tunneling, Real-time Transport Protocol (RTP) header compression
- Extensive support for radio-aware routing and mobile IP
- Suite-B support cryptography
- Group Encrypted Transport VPN, Dynamic Multipoint VPN (DMVPN), or Enhanced Easy VPN
- Integrated threat control - IOS firewall, zone-based firewall, IPS, content filtering and Flexible Packet Matching (FPM)
- Extensive security protocols - IPSEC, SSHv2, SSL/TLS, SRTP, AES, IKE
- Traffic management - QoS, generic traffic shaping, 802.1p CoS, WRED, CBWFQ, LLQ, priority queuing and RSVP
- Management services - SNMP v2 and v3, RADIUS, TACACS+, Syslog, TFTP, DHCP, HSRP and more
- Cisco Unified Communications Manager Express support

### Other Capabilities

- Lights-out mode
- Zeroize button for configurable secure erasure

## Power Specifications (with Power Input Adapter or chassis sold separately)

Power draw: Nominal 13 watts total  
(plus PoE load)

- Battery snap-together connectors for 1-2 each AN/PRC- 152/148 snap-on radio batteries; hot-swappable with 5+ hours runtime per battery.
- Includes built-in recharger for attached tactical radio batteries
- Wide-range DC input, 10 - 35 VDC. For example, allows powering with AN/PRC-117 radio batteries
- Worldwide AC power input (power supply with adapter cable)
- Regulated clean 12 VDC output, 20 watts (supports KG-250X/XS or KG-175D)
- PoE Plus power: Up to 60 watts available PoE power
- 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