



PacStar 400-Series

Modular Communications Solutions

Key Features

- Networking computing and communications technologies from leading providers
- Snap-together design enables quick expansion with other PacStar 400-Series products and quick reconfiguration of modules and chassis
- Extensively tested to MIL-STD 810/461. Reports available on request.
- Integrated power supplies that run on tactical radio batteries, wide range DC input and worldwide AC input
- Continuous runtime with hot-swappable batteries
- Regulated 12 V DC output supports powering KG-250X/XS or other accessories
- Best in class SWaP, typical module weight 2.5 lb 5.3 in x 7.1 in x 1.6 in

The PacStar® 400-Series family of small form factor, rugged, modular communications solutions is designed to maximum capabilities and configuration flexibility, with the smallest SWaP possible. PacStar 400-Series includes routing, switching, advanced network services, application hosting, storage, and more – in lightweight packaging designed with a wide variety of power options.

The PacStar 400-Series is designed to serve the tactical communication needs of teams that deploy worldwide and have secure communication requirements in austere environments - enabling teams from defense and Homeland Security and first responders and civilian organizations to easily and securely connect multiple devices to mission critical communications networks.

PacStar 400-Series is optionally managed by IQ-Core® Software, which simplifies system setup and network management and protects the system from misconfiguration by operators in the field.

PacStar 400-Series Router Module



PacStar 447 Small Router Module

- Based on Cisco ESR 6300 routing/switching module with (6) Gigabit Ethernet ports
- Extended temperature range and fanless design improves reliability and uptime
- Small, but powerful; only 5.3 in x 7.1 in x 1.6 in and 2.4 lb

PacStar 400-Series Switch Modules



PacStar 444 Small GigE Switch Module

- Based on Cisco ESS 3300 switch with (2) 10 GigE SFP and (8) GigE RJ45 ports
- Provides high-density network access for critical voice, data and video connectivity
- Small, but powerful; only 5.3 in x 7.0 in x 1.6 in and 2.5 lb



PacStar 446 26-port GigE Switch Module

- Based on Cisco ESS 3300 with (2) 10 GigE SFP+ and (24) GigE RJ45 ports
- 24-port version also available. Please contact your account manager for details.
- Provides high-density network access at Gigabit speeds for critical voice, data and video connectivity in a compact, rugged form-factor
- Small, but powerful; only 5.3 in x 7.0 in x 3.4 in and 5 lb



PacStar 448 Small 10 GigE Switch Module

- Based on Cisco ESS 9300 with 10 GigE SFP+ ports
- Industry-leading size, weight, and power (SWaP) provides customers maximum flexibility when integrating into programs where mobility and deployment speeds are critical
- Small, but powerful; only 5.3 in x 7.0 in x 1.6 in and 2.5 lb

PacStar 400-Series MCS

PacStar 400-Series Server Modules



PacStar 451 Small Server Module

- Powerful, compact server module to host applications & virtual network functions at the edge
- Intel Xeon D processing platform with up to 10-cores / 20 threads and 128 GB memory
- Available with a wide variety of pre-loaded, pre-secured, and pre-qualified software applications appropriate for use in tactical communications applications
- Small, but powerful; only 5.3 in x 7.1 in x 1.7 in and 2.7 lb



PacStar 452 High-speed Storage Server Module

- Intel® Xeon® processing platforms in 4-core, 8-core, and 10-core variants
- IPMI management with Redfish Support
- (4) removable E1.S NVMe drives
- Microsoft Azure Local-certified solution (for distributed edge cloud computing)



PacStar 453 NVIDIA GPU-Accelerated Server Module

- Intel Xeon D processing platform with up to 10 cores, 128 GB RAM, 1/10 G Ethernet connectivity and dual removable E1.S NVMe SSD storage
- NVIDIA RTX Pro GPU for edge AI / ML and video processing applications
- Small, but powerful; only 5.3 in x 7.1 in x 3.4 in and 3.5 lb



PacStar 454 NVIDIA GPU-Accelerated Server Module

- Intel Xeon D processing platform with up to 10 cores, 128 GB RAM, 1/10 G Ethernet connectivity and three E.1.S NVMe removable SSD storage
- NVIDIA RTX Pro GPU for edge AI / ML and video processing applications
- Small, but powerful; only 5.3 in x 7.1 in x 5.5 in and 6.4 lb



PacStar 455 High-Capacity Tactical Data Storage Server

- Intel Xeon D (up to 128 GB RAM) processor with 10 G network connectivity for general-purpose or dedicated compute and storage tasks
- Up to 480 TB RAID SSD storage via 8 x E3.S NVMe SSD
- Small, but powerful; only 5.3 in x 7.1 in x 5.5 in and 6.4 lb

PacStar 400-Series MCS

PacStar 400-Series Sleds



PacStar 411 HAIPE Sled

- Adapts KG-250X or IPS-250X to PacStar 400-Series chassis
- Includes power and data pass through and physical locking features
- Provides Ethernet cabling from the rear of the encryptor to the front of the sled, enabling quick and convenient access for network cabling
- Small, but powerful; only 5.3 in x 7.0 in x 3.4 in and 4.4 lb



PacStar 412 HAIPE Sled

- Secures and provides connections for ViaSat KG-250XS (sold separately)
- Provides Ethernet cabling from the rear of the encryptor to the front of the sled, enabling quick and convenient access for network cabling
- Small, but powerful; only 5.67 in x 7.1 in x 1.7 in and 2 lb



PacStar 413 HSM Sled

- Secures and integrates BlackVault HSM into PacStar 400-Series solutions
- Integrated power connectors providing power from tactical radio batteries, or power input
- Small, but powerful; only 5.67 in x 10.12 in x 1.73 in and 3.6 lb



PacStar 414 Radio Sled

- Secures and provides connections for a wide variety of tactical / LMR radios such as traditional PTT LMR, MANET, SINGARS, and new generation multi-channel radios
- Small, but powerful; only 5.67 in x 7.1 in x 1.7 in and 2.5 lb

PacStar 400-Series MCS

PacStar 400-Series Radio Gateways



PacStar 463 RoIP Module

- Based on proven technology from SCI TOCNET G4
- Extends and integrates remote LMR radio networks into IP based networks, enabling organizations to benefit from the best capabilities of each
- Small, but powerful; only 5.3 in x 7.1 in x 1.6 in and 2.5 lb



PacStar 466 RoIP Gateway

- Powered by Parraid NRG
- Scalable: Decentralized mesh network of gateway and clients
- 4 radio ports (up to 50 clients per gateway); USB expandable to 12 ports
- WAVE, ICE, SIP, UD/IP, H.323, Cisco CUCM, TOCNET, Multicast, Vocality, and more
- Small, but powerful; only 5.3 in x 7.1 in x 1.6 in and 2.5 lb



PacStar 467 RoIP Gateway

- Powered by SyTech RADIUS
- 4 radio ports; Gigabit Ethernet port expansion to unlimited modules
- WAVE, ICE, SIP, UDP/IP, Cisco UCM, TOCNET, Multicast, Vocality, and more
- Small, but powerful; only 5.3 in x 7.1 in x 1.6 in and 2.5 lb

PacStar 400-Series MCS