



PacStar 4200 Baseband Access-Tactical (BA-T)



The PacStar 4200 provides critical voice, data and video connectivity prior to the installation of sustaining communications capabilities. It is designed to serve the tactical communication needs of small to medium size teams who deploy worldwide and have secure communication requirements in austere environments.

Built with Cisco's high-performance G2 routing technology and PacStar's IQ-Core[®] Software, the system can provide baseband connectivity through a variety of backhaul options including VSAT, 3G/4G, BGAN and hotel networks.

Complemented with a variety of network enclaves that can be customized to user requirements, the base system can provide simultaneous access for up to 4 networks including SIPRNet, NIPRNet CENTRIXS and JWICS.

The PacStar 4200 is managed by PacStar's IQ-Core[®] Software which simplifies system setup, network management and protects the system from mis-configuration by operators in the field.

Features

- Cisco 1921 Series Router (ISR)
- Cisco Catalyst 3560 Series switches
- IPSec VPN for secure colorless/cipher-text core access
- Multiple backhaul options: VSAT, 3G/4G, LAN (hotel), BGAN and other IP options
- Managed by PacStar IQ-Core Software
- AC/DC auto switching power conditioner, worldwide power input, with on-board batteries
- Extensive interoperability with DoD proven technologies – including WAN Optimization, Voice/RTP muxing, and Cellular/WiFi reachback
- Interoperable with DoD/NSA certified HAIPE INEs including Harris SecNet 54 or ViaSat KG-250X
- IPv4/IPv6 compatible

Cisco 1921 ISR G2 Router

- Supports 150 Mbps of routed IP traffic, required for current-generation Voice/Data/Video requirements

- Integrated modularity with (2) serviceable HWIC slots, enabling integration of a wide variety of modules
- IPSec and SSL VPN, with AES encryption, FIPS-140-2 validation (in process)
- IP Routing: BGP, OSPF, RIPv2, EIGRP
- Extensive QoS/CoS capabilities

Cisco Catalyst 3560 Series Core

- 12 Ethernet PoE ports for enclave connections and/or for end instruments (phones, laptops, VTC)
- SFP Port for single mode and multimode fiber
- Extensively proven, JITC-certified switching/routing technologies
- Enterprise-class capabilities with extensive security capabilities
- IP Routing capabilities: RIPv2, EIGRP upgradeable to BGP and OSPF

PacStar IQ-Core[®] Software

- Integrated system management software providing a simplified, unified, user interface
- Wizards automate key management functions to simplify setup and operation and to reduce errors
- Reduces training and support requirements
- Enables system management by non-technical users
- Dashboard view of status of the devices, device temperatures, transmission, status of router interfaces, and system events
- Management of devices, including console access and password changes
- Setup and management of LAN and satellite backhaul (transmission)
- Management of device configurations
- System event logging and reporting
- PDF-based user documentation & help

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Physical Specifications

- Built into a Hardigg Storm Case[®] - iM2600 - meeting airline carry-on size requirements
- Dimensions 21.2 x 16 x 8.3 in
- Weight <40 lbs, depending upon options

Power Supply/Charger

- Seamlessly switches between AC (90-264V / 47-63Hz), external DC (10 - 36V), and the internal battery to ensure continued operation in unreliable power conditions
- "Dirty" AC power is fully conditioned using a 2-step conversion process
- 400 watts at 50°C
- DOT-approved high-capacity lithium ion manganese battery, providing >=2.9Ah at 25.24V with an operating temperature ranging from -10°C to 50°C, outperforming standard LiON batteries

Enclave Options

- PacStar offers two options for enclave switches, integrated into a removable tray in the PacStar 4200 core chassis:

Cisco Catalyst 3560 Series Switches

- Up to 3x Cisco 3560 12-port PoE layer-3 switches residing in the core chassis and provided as enclaves
- 12 Ethernet ports for enclave connections and also for end instruments (phones, laptops, etc.) and one uplink port
- Extensive port security, meeting IA requirements
- IP Routing capabilities: RIPv2, EIGRP upgradeable to BGP and OSPF

Cisco 5915 Embedded Services Router (ESR)

- Up to 100 Mbps of routed IP traffic supporting current generation Voice/Data/Video requirements
- IPSec and SSL VPN with AES encryption, FIPS 140 validation (in process)
- IP Routing: BGP, OSPF v2/v3, RIPv2, EIGRP
- Supports Cisco Unified Communications Manager Express
- 4x PacStar-designed 802.3af PoE ports for LAN
- Runs on the PacStar 4200 core power supply
- Ultra-compact footprint

Additional Options

PacStar 1210 Tactical Accelerator Appliance (TAA) with Riverbed

- Integrated with Riverbed[®] Steelhead[®] technology up to 20 Mbps optimization
- Industry leading TCP/IP acceleration
- Caching/Byte Deduplication, application protocol acceleration
- 1.9 lbs, Wide Range DC input - can run off the PacStar 4200 core
- MIL-STD 810G up to 50°C, operational

Nexus Hawk 1000W Wireless/Cellular/3G Gateway

- Gateway support for T-Mobile and Verizon GFE cellular radios
- Wi-Fi radio for hotel and/or other Wi-Fi locations
- One interface device for all radio/cellular backhaul, reducing SWaP
- Supports GSM (GPRS, EDGE, UMTS, HSDPA, etc) and CDMA
- Provides multiple physical interface types including USB, PCMCIA Cards, and Express Card for maximum flexibility
- Provides 802.11 a/b and g, with WEP, WPA and WPA2 (64 and 128-bit)

ViaSat[®] AltaSec[®] KG-250X HAIPE INE

- NSA Type 1 approved for encryption at TS and below
- HAIPE 3.0 support
- Expanded operational temperature range (up to 60°C)
- Throughput up to 100 Mbps (bi-directional total 200 Mbps)
- FI compliant and Suite B support

Harris SecNet 54 EMOD HAIPE INE

- NSA Type 1 certified encryption for bulk IP encryption, providing INE remote access for all required classified networks (SIPRNet, CENTRIXS-ISAF, JWICS, secure NIPRNet, etc.)
- Smallest available certified HAIPE INE, reducing equipment SWaP
- Proven performance in deployable kits, fully interoperable with other INEs commonly installed in teleport/reachback sites

Customized Accessory Cases

- PacStar offers customized accessory cases to complete systems based on the PacStar 4200.

Intellectual Property

- Pacific Star Communications, Inc. products are protected by US patent number 7,535,861 and number 7,817,589
- Additional patents pending

