



PacStar[™] 6300 Deployable Voice Exchange (DVX)



The PacStar 6300 is a full-featured, IP-based, tandem switch, and PBX for US military field deployments. It features an advanced, Cisco-based UC (Unified Communications) platform in an integrated package that includes Cisco Unified Communications Manager (CUCM). The system is JITC-certified and meets the DVX requirements of the Defense Information Systems Agency (DISA) for voice and communications services. The system can connect to the Public Switched Telephone Network (PSTN) and to the Defense Switched Network (DSN), and supports subtending switches.

The system enables a smooth migration from legacy TDM (Time Division Multiplexing) to EoIP (Everything over IP).

PacStar's system management software, IQ-Core[™] Software, simplifies system setup and management, protects the system from misconfiguration by preventing many operator errors, and reduces training and support requirements. The system includes IQ-Core Case technology, which cools and ruggedizes the system, and enables remote management of devices.

With the PacStar 6300, troops can train on Cisco-based UC systems at home and then experience the same features in the field. The system is designed to integrate smoothly with existing platforms, and deliver advanced features to deployed troops in difficult and temporary locations.

Features

- JITC-certified DVX, IP-based, voice/communications, UC device
- Supports subtending (tandem switch)
- T-1 PRI trunking
- MLPP support
- Integration with preset, video, and web conferencing
- Proven components scaling up to 1000 VoIP and analog users
- Supports STUs, STEs, and secure analog and VoIP phones
- PacStar IQ-Core Software v3.0 for wizard-based, simplified, and unified system management

CUCM v4.3

- Hosted on a high-performance, proven, Cisco MCS server
- Runs on MS Windows 2003 Server and MS SQL Server
- Call processing and call control

- Video switching, wideband codec support, encrypted audio and signaling, device mobility
- Auto attendant and attendant console
- Call analysis and reporting tools
- Real-time monitoring tools
- Auto-registered phone support

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 devices, status of phone system, and system events

- Setup and management of users
- Setup and management of phones, call traces, and hotlines
- Views of the call route plan, recent call detail records, calling search spaces, and trunk traffic and performance
- Management of devices, including console access and password changes
- Monitoring of devices, with alerts
- Management of device configurations
- System event logging and reporting
- Efficient remote management protocol
- Designed from the ground up for net-centric computing
- Award-winning, PDF-based, user documentation
- Context-sensitive, PDF-based Help

Option

- Ruggedized KVM



PacStar IQ-Core Case

- Ruggedized, cooled, state-of-the-art, intelligent transit case
- Tested to MIL-STD-810F environmental, vibration, and shock standards
- Field-replaceable/upgradeable trays
- Up to five trays per case
- High-velocity fan cooling
- Particulate filtration
- Software-based monitoring and remote equipment power control

Physical Specifications

- Size: 8U transit case
- Case dimension: 39 x 23 x 18 in.
- Unit weight: 195 lbs

Hardware Platform

- Cisco MCS servers (CUCM and PacStar IQ-Core Software)
- Cisco ISR router (FXS ports and voice/gateway functionality to T-1 interfaces)
- Cisco switch (intra-system connectivity and simplified setup)
- PacStar IQ-Core Case, a ruggedized, cooled, intelligent transit case

Power Consumption

Average power consumption 400 watts

Intellectual Property

- Pacific Star Communications, Inc. products are protected by US patent number 7,535,861 and number 7,573,713
- Additional patents pending

PacStar Small Capacity TDM Gateway

Required for PacStar 6300 employed as JITC-certified DVX-C



The PacStar Small Capacity TDM Gateway increases the trunking and tandem functions of the PacStar 6300. Based on the REDCOM® SLICE® TDM gateway, the PacStar Small Capacity TDM Gateway supports T-1 PRI, T-1 CAS, E-1 CAS, and E-1 PRI, trunking and tandem options, with MLPP interoperability. This TDM gateway connects seamlessly with the PacStar 6300 main case.

This TDM gateway also provides BRI ports for secure communications, and supports STUs, STEs, and secure analog and ISDN BRI phones.

The PacStar Small Capacity TDM Gateway comes with PacStar IQ-Core Case technology, which provides ruggedization, remote management, and environmental conditioning. The system is tested to MIL-STD-810F environmental, shock, and vibration standards.

Features

- JITC-certified extension to the PacStar 6300 DVX
- Supports subtending (tandem switch)
- For MLPP interoperability, extends the trunking available in the PacStar 6300 (T-1 CAS, E-1 CAS, E-1 PRI, T-1 PRI)
- Preset conferencing
- Support for STUs, STEs, and secure analog and ISDN BRI phones

Physical Specifications

- Size: 8U transit case
- Case dimension: 39 x 23 x 18 in.
- Unit weight: 175 lbs

REDCOM SLICE TDM Gateway

- T-1/E-1 trunking TDM gateway providing MLPP interoperability
- JITC-certified 1u TDM switch
- Up to 24 analog line circuits
- Up to 4 ISDN BRI-S circuits
- Conferences: Preset, Meet-me, Flexible
- MLPP ANSI 619a



PacStar IQ-Core Case

- Ruggedized, cooled, state-of-the-art, intelligent transit case
- Tested to MIL-STD-810F environmental, vibration, and shock standards
- Field-replaceable/upgradeable trays
- Up to five trays per case
- High-velocity fan cooling
- Particulate filtration
- Software-based monitoring and remote equipment power control

Power Specifications

- Average power consumption 300 watts