DuraNET 3825

Ruggedized Cisco 3825 Integrated Services Router

- **Ruggedized Cisco 3825 Router w/ Integrated Ethernet Switch & Serial Network Modules**
- **19" Rackmount Compatible**
- **Designed to Meet MIL-S-901D, Grade B**
- **Designed to Meet MIL-STD-461E**

CISCO INSIDE: Ruggedized Cisco 3825 ISR w/ Integrated Ethernet Switch Service Module and Asynchronous/Synchronous Serial Network Module:

• PRV-1313-01 Model:
Includes Cisco 3825 Router w/ NM-16ESW
(16-Port 10/100 Ethernet Switch), NM-8A/S (8-Port Asynchronous Synchronous Serial Network Module)

• PRV-1313-02 / -03 Models:
Includes Cisco 3825 Router w/ NME-16ES-1G
(16-Port 10/100, 1-Port Gigabit Ethernet Switch), HWIC- 8A/S-232
(8-Port High-Speed Serial & Asynchronous High-Speed WAN Interface),
AIM-VPN/SSL-3 (VPN Encryption Module)

FEATURES

ETHERNET PORTS
- 12x switched 10/100 (Fast Ethernet) ports
- 2x 10/100/1000BASE-T (Gigabit) uplink ports

MANAGEMENT: SSH, HTTPS, SNMPv3

SECURITY: Stateful Cisco IOS Firewall, Software Encryption; AIM-VPN/SSL-3 DES/3DES/AES VPN Hardware Encryption Acceleration (-02 / -03 Models)

ETHERNET PORTS: 2x Gigabit Ethernet Routed Ports,
1x Gigabit Ethernet Switch Port (-02/-03 models only),
16x 10/100 Ethernet Switched Ports

SERIAL PORTS:
• 8x Async/Sync RS-232 Ports (see Pinouts for Functional Capabilities)
• 1x Console
• 1x Auxiliary (-02/-03 models only)

CONNECTORS:
• Front Panel - USB (-01 Model), CompactFlash Socket
• Rear Panel - Ethernet, Serial, Power on MIL-38999 (Different pinouts and I/O arrangement of Ethernet & Serial in -01 vs -02/-03 versions)

USB: 2x USB 1.1 ports (-01 model only) for use with Security Tokens and Other Applications

STATUS: LED Status Indicators for System Power, System Status, Packet Activity, and Flash Access

The DuraNET® 3825 is a ruggedized version of the Cisco 3825 Integrated Services Router (ISR), combining the powerful features available in Cisco IOS® software, Catalyst® Layer 2 LAN switching, and flexible Layer 3 WAN routing into a single ruggedized platform. An ideal Commercial Off the Shelf (COTS) solution for Internet Protocol (IP)-based networking applications, the unit integrates embedded security processing, generous performance, high memory capacity, and high-density interfaces to deliver the performance, availability, and reliability required for scaling mission-critical applications.

Designed to meet MIL-S-901D Grade B shock levels and MIL-STD-461 EMC requirements, the DuraNET 3825 incorporates mechanical packaging enhancements to suite shipboard / military installations. It features up to two (2) Gigabit Ethernet WAN uplinks, a (1) Gigabit Ethernet Switch port, sixteen (16) 10/100 Ethernet ports, and eight (8) Asynchronous / Synchronous RS-232 serial ports, as well as console and auxiliary serial ports in a 19" rack-mount chassis with circular MIL-C-38999 connectors. Network features include port autosensing, QoS and VLAN capabilities compliant with 802.1p and 802.1Q standards, and 802.1D Spanning Tree protocols. For ease of management and configuration, the router features the intuitive, Web-based Cisco Router and Security Device Manager (SDM) with support for Secure Shell Protocol Version 2 (SSHv2) and Simple Network Management Protocol Version 3 (SNMPv3) protocols to encrypt the management session. Select models also integrate a Cisco VPN Hardware Encryption Acceleration module and upgraded system and Flash memory configurations.
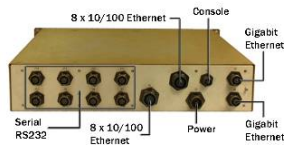
Parvus

Specifications

Front View (PRV-1313-02 / -03)

Rear Connector Layout (PRV-1313-02 / -03)

Front View (PRV-1313-01)

Rear Connector Layout (PRV-1313-01)

PERFORMANCE	Designed to deliver multiple concurrent services at wire-speed performance of up to T3/E3 rates. T3/E3 value represents IMIX packet sizes in higher than typical 3825 services configurations. In less service-intense environments, actual WAN throughput will be higher. In light service environments with 64 byte packets, the 3825 series can achieve between 350-500 Kpps
COMPLIANCE	• IEEE 802.1d Spanning Tree Bridge • IEEE 802.3 10 Mbps 10BASE-T (Ethernet) • IEEE 802.3ab 1000BASE-T 1000 Mbps (Gigabit Ethernet) • IEEE 802.3u 100BASE-TX 100 Mbps (Fast Ethernet) • IEEE 802.1D Spanning-Tree Protocol • IEEE 802.1P LAN Layer 2 QoS/CoS Protocol for Traffic Prioritization • IEEE 802.1Q Virtual LAN (VLAN); Trunking
MEMORY	• Flash Memory (Compact Flash): 64 MB (-01 model), 128MB (-02/-03 models) • System Memory (DDR-SDRAM with ECC): 256 MB (-01 model), 512 MB (-02/-03 models)
INSTALLATION	19" RS-310 Rackmount, 2U Height: • PRV-1313-01 Includes Front Panel Handles & Support for Optional Rail Slides • PRV-1313-02/-03 Models Support Standard Cisco Rack Mount Brackets
PHYSICAL	*(PRV-1313-01)* • Weight: Approx. 27.4 lbs / 12.4 kg (w/ optional rails) • Dimensions: 3.50" x 19.10" x 18.90" H x W x D, Overall Depth with Connectors: 19.80" • Material: Aluminium Alloy • Finish: MIL-A-8625 Black Anodize (Front Panel); MIL-DTL-5541 Chem Film (All Other Panels) • Connectors: MIL-C-38999 Olive Drab Cadmium *(PRV-1313-02 / -03)* • Weight: Approximately 25.2 lbs / 11.4 kg • Dimensions: 3.50" x 17.61" x 18.28" H x W x D, Overall Depth with Connectors: 19.31" • Material: Aluminium Alloy • Finish: Carbide Black Painted (Front); MIL-A-8625 Black Anodize (Top/Bottom/Sides); MIL-DTL-5541 Chem Film (Rear) • Connectors: MIL-C-38999 Olive Drab Cadmium (-02), Electroless Nickel (-03)
POWER	• Power Dissipation: <100 Watt Typical (estimated) • AC Input: 100 – 240 VAC • In-rush current: <10A typical (-01 model includes power conditioning), <50A typical (-02/-03)
COOLING	• Forced Convection Cooling; Top/Side Inlet – Side/Rear Exhaust • 50 dBa typical noise level
ENVIROMENTAL	• Shock: Designed to meet MIL-S-901D, Grade B (Surface Ship Interior Spaces) • Operating Temperature: 0°C to +40°C (+32°F to +104°F) • Non-Operating Temperature: -40°C to +85°C (-40°F to 185°F) • Relative Humidity (Non-Condensing): 5 to 95% • Altitude: Sea Level to 6000 Ft (oper temp derates @ higher altitudes) • EMI/EMC: Designed to meet MIL-STD-461E Radiated Emissions & Susceptibility
MTBF	Estimated Mean Time Between Failure: 124,751 hours (Ground Benign) 37,425 hours (Naval Sheltered)
WARRANTY	90-Day RTF Warranty (Extended Service Contracts Available that Bundle Cisco SmartNet Software Upgrades/Updates)

Parvus
Member of Eurotech Group

3222 So. Washington Street Salt Lake City, Utah 84115 - USA
+1 800.483.3152 | +1 801.483.1533 | sales@parvus.com | www.parvus.com

EUROTECH
www.eurotech.com