



TEMPEST Level I, Level II and Zone Fiber Switch

Product Data

Model - DNT-301 (Level I), DNL-301 (Level II) and DNZ-301 (Zone A)
Model - DNT-302 (Level I), DNL-302 (Level II) and DNZ-302 (Zone A)

Description

The API TEMPEST Fiber Switches are based on the Magnum™ Quad-Series Fiber Switches. The Fiber Switches boost the performance of large Ethernet LANs, with the flexibility of fiber and switched ports. Any mix of fiber (100 Mb or 10 Mb) switched ports and connector types may be configured. The TEMPEST Fiber Switches provide the switching speed and the reliability needed for increased network performance using any available fiber media type.

API's TEMPEST Fiber Switches offer the maximum in application flexibility with a series of fiber port connector types. All applicable fiber port types (100 Mb FX-ST, SC, and 10 Mb FL) and cable modes (2Km multi-mode, 20Km single-mode and 40Km "long reach" single-mode) are configurable in 4-port modules. Mixed-media combination modules are also supported in all of the API Fiber Switches. Supports all the major file serving protocols including SMB/CIFS, NFS, NCP, AppleTalk, HTTP and FTP.

Designed for use in organizations with multiple workgroups, remote offices and network traffic centers, the TEMPEST Switches are easy to install and use. Addresses of attached nodes are automatically learned and maintained, adapting the switching services to network changes and expansions to provide plug-and-play operation. Front-mounted LEDs provide status information on each port. Large 8 MB packet buffers provide advanced performance, even with unbalanced loads. Store-and-forward switching filters all faulty packets to minimize traffic congestion.

Features

- Certified to NSTISSAM TEMPEST/1-92 Level I, Level II, Zone and NATO SDIP-27 A & B standard (formerly AM5G 720B & AM5G 788A)
- Provides switching services to enhance the performance of 10/100 Mb Ethernet networks by segmenting the network traffic
- High performance operation, plug-and-play installation for switching services, transparent to system software
- Has a compact package for installation in offices and labs with metal case and auto-ranging internal power supply



DNT-302 (Level I)



DNT-301 (Level I)



TEMPEST Level I, Level II and Zone Fiber Switch

Specifications

Model - DNT-301 (Level I), DNL-301 (Level II) and DNZ-301 (Zone A)
Model - DNT-302 (Level I), DNL-302 (Level II) and DNZ-302 (Zone A)

Performance

10/100 auto-negotiating, FDX/HDX (internal jumper can select 100 only)
Fiber Ports (multi-mode and single-mode): 100 Mb speed per port based on the fiber connector part. FDX or HDX, default is FDX mode. (Internal jumper can select FDX-only)

All Ports:

Processing type: Store and Forward with IEEE 802.3x full-duplex flow control, non-blocking

System aggregate forward and filter rate: 2.3M pps (all ports 100Mb speed)
System (16p)

Address table: 32K nodes, self-learning, with address aging

Packet buffers: 8 MB dynamic

Latency: 5µs + packet time max (TX - TX, TX - FX, FX - FX)

PDV: 50 BT

Network Standards

IEEE 802.3u: 100BASE-TX, -FX, IEEE 802.3: 10BASE-T

Auto-negotiation on TP, IEEE 802.3u

All 10 Mb ports obey the rules for configuring 10Mb Ethernet

All 100 Mb ports use Fast Ethernet rules

Operating Environment:

Ambient: 32° to 120°F (0° to 50°C)

Storage: -5° to 160°F (-20° to 70°C),

Ambient relative humidity: 10% to 95% (non-condensing)

Switches on Chassis, Manual:

Power ON-OFF, in rear at power input

Network Cable Connectors:

Fiber ports connector options: multi-mode FX-ST, SC, singlemode 20Km SC, and 40Km "long reach" single-mode SC.

AC Power Supply (internal):

AC Power Connector: IEC-type, male recessed, ON/OFF switch.

Power Input Voltage: 100 - 240 VAC (auto ranging)

Power Input Frequency: 47 to 63 Hz

Power Consumption: 8-port models, 20 watts typical; 16-ports, 35 watts typical, 65 watts max.

Mechanical:

Enclosure: Rugged high-strength sheet metal. Suitable for standalone or rack-mounting.

Cooling Method: Fan cooled, internal @ 9cfm

Dimensions: 1.75 in H x 17.0 in W x 9.13 in D

4.45cm H x 43.2 cm W x 23.2 cm D

Weight: rack-mount 4.0lb. (1.8 kg)

LED Indicators per RJ-45 Port:

LK: Steady on when twisted-pair link is operational.

ACT: On with port activity

FDX/HDX: ON = full-duplex mode, OFF = half-duplex mode.

100/10 ON = 100Mbps speed, OFF = 10 Mbps

Per-Port Switches, Jumpers:

F/H (fiber ports only): Default = FDX

(Internal jumper selects HDX mode)

Agency Approvals:

UL Listed (UL1950), cUL, CE, Emissions meet FCC Part 15,

Warranty

3-year on parts and labor

Advanced Programs, Inc. is an NSA-endorsed test services facility and an NSA-endorsed TEMPEST manufacturing facility.

Technical Specifications are subject to change without notice. U.S.A. export controls apply to these products. EOE

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