NetVanta 832T

Two-Port, SHDSL EFM Ethernet NTU

Product Features

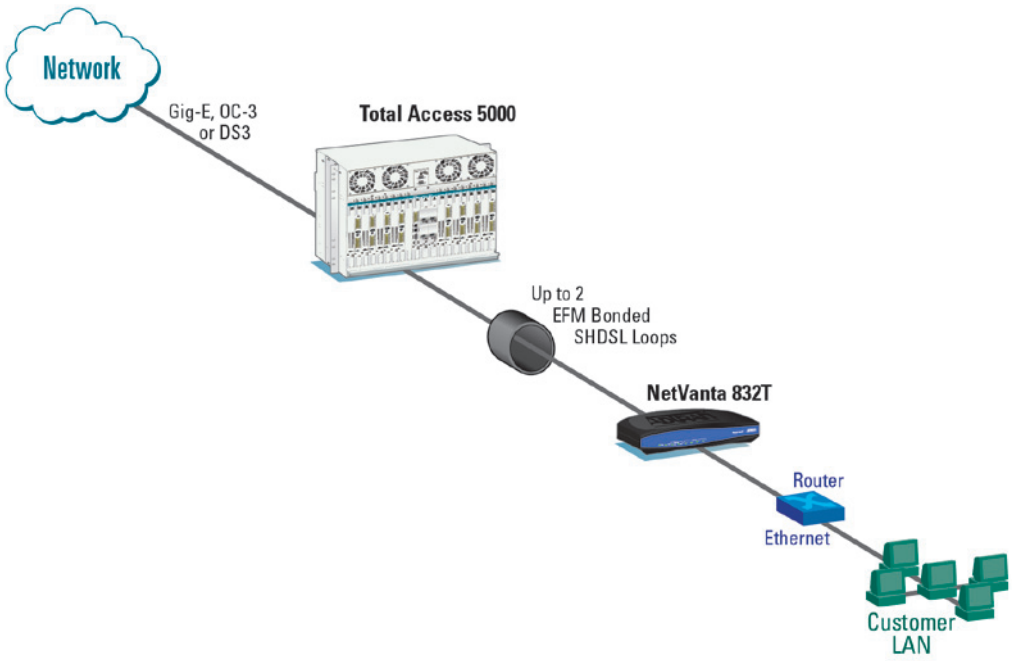
- Supports Carrier Ethernet services over Copper
- MEF 9/14 certified supporting standard Ethernet OAM
- Enhanced SHDSL data rate performance up to 15 Mbps per loop (30 Mbps symmetrical total)
- Auto-failover and recovery for improved service robustness
- Plug-and-play auto line detection for easy installation
- Autosensing 10/100Base-T Ethernet
- Spectral compatibility for robust operation alongside other DSL services
- Supports Terminal and Facility MAC-Swap Loopback to validate service turn up and trouble-shooting
- Firmware upgrades through the LTU
- AC power supply
- Deskmount and rackmount options

The NetVanta 832T is a Carrier Ethernet Network Termination Unit (NTU) that terminates up to two e.SHDSL copper pairs. Four 10/100 Ethernet ports are provided for customer use. The NetVanta 832T is designed for cost-effective deployment of voice and data services to small- and medium-sized businesses, supporting bandwidth indoors of up to 30 Mbps. However, deployments using outside plant copper for extended distances will be closer to a 5 Mbps service offering. The NetVanta 832T is designed for LAN, WAN and MetroEthernet extension as well as supporting Voice over IP (VoIP) applications with voice, video and data traffic. Enterprise customers, as well as integrated communications providers like CLECs, ILECs and ISPs, will benefit from this intuitive, easy to install, plug-and-play unit. A key feature of this unit is auto line detection, which enables synchronisation with data rates from 192 Kbps to 15 Mbps without operator intervention.

In the event that a single loop fails, the NetVanta 832T will continue to operate on the remaining loop, providing additional resiliency. Once the failed loop is operational again, the NetVanta 832T will automatically detect its availability and will auto-recover to the original configuration.

The EIA-232 craft port enables local access for configuration and status information. The SHDSL Ethernet over Copper provides carriers a management channel to remotely configure and collect status information.

The compact design provides safety and reliability required for customer premises installations. It can be wall or rack mounted depending on customer preference. When wall mounted, the NetVanta 832T only occupies a six-inch by 10-inch area of the customer's telephone wiring closet (less than the size of a standard piece of notebook paper). For rack mount installations, custom 19-inch rackmount shelves are available.



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TL9000 TL19.1270

ADTRAN is an ISO 9001, ISO 14001, and a TL 9000 certified supplier.

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Two-Port, SHDSL EFM Ethernet NTU

Product Specifications

Physical Interface

Network Interface

- RJ-48C SHDSL

Client Interface

- Autosensing 10/100Base-T Ethernet
  - RJ-45
  - Auto MDI/MDIX
  - Auto-Rate
  - Auto-Duplex
- All Ethernet ports may be used for either network WAN or customer-side LAN connections

Management: Console Port

- DB-9
- EIA-232

Diagnostics LEDs

- Power/Alarm LED
- Ethernet LED
- SHDSL Loop Status for Each Loop

Environment

- **Operating Temperature:** 0° to 50°C (32° to 122°F)
- **Storage Temperature:** -20° to 70°C (-4° to 158°F)
- **Relative Humidity:** Up to 95%, Non-condensing

Physical Specifications

- **Dimensions:** 51 mm x 241 mm x 152 mm
- **Weight:** 0.9 kg (2.0 lbs)
- **AC Power:** 12 vDC-powered Unit with Country-specific Wallmount AC Power Supply
- **DC Power:** External "brick" Power Supplies Available for Different Regions
- **Power Dissipation:** 5 watts maximum

DSL Features

- Variable rate bonding for the SHDSL loops
- Auto-failover and recovery
- Plug-and-play auto-line detection
- ITU-G.991.2-2003, Annex A & B—SHDSL

Ethernet Features

- IEEE 802.1p priority marking
- IEEE 802.1d dynamic/transparent bridging
- IEEE 802.1Q VLAN tagging
- IEEE 802.3u Ethernet
- MEF 9/14 certified EPL, EVPL, ELAN

Ethernet Services Support

- Priority queuing of traffic based on VLAN priority
  - Supports eight class of service queues
  - Per UNI port, CE VLAN ID (C-Tag) and/or CE VLAN P-bits, DSCP fields
- Single stack VLAN and double stack VLANs (Q-in-Q)
  - Manipulation based on 802.1p and DSCP fields
  - STAG TPID provisioning supports 802.1ad and 802.1Q standards
  - Port-based service support
- Services Scale and Flexibility
  - MEF 9, 14 compliant EPL, EVPL, ELAN
  - Configurable EtherType and TPID for service flexibility
  - VLAN IDs 0–4095; EVC configurable in the range of 2–4094
  - Configurable MTU from 1500 to 2000 Mini Jumbo frames in four bytes increments
  - 16k active MAC address; Ability to disable MAC learning (32k support future software)
  - Ingress policers (tr3CM), CIR and EIR settings to 64 kbps granularity, Configurable Burst through EBS, CBS settings
  - Egress shaping per port (per port per queue and per up to 16 VLAN groups in future)
- Resources
  - 32 EVCs
  - 64 EVC Maps
  - 64 Policers
  - 1 EFM Group

Fault and Performance Management

- IEEE 802.3ah EFM standard
- ITU-T Y.1731 CFM, PM
- Supports OAM management status and loopback messaging
- Supports Terminal and Facility MAC-Swap Loopback

Management and Administration

- Management Methods
- Craft interface (Local, EIA-232)
- SNMP proxy through TA838 LTU, TA1400S series and TA5000
- Firmware upgrades
- Local: XMODEM through craft port
- Remote: Managed through TA838 LTU, TA1400S series and TA5000
- Configuration script download

Regulatory Agency Approvals

- FCC Part 15 Class A
- FCC Part 68
- UL 60950, CAN/CSA C22.2 No. 60950
- EN 60950, IEC 60950, AS 3260/ AS NZS60950
- NEBS Level 3
- S043.2
- ITU-T K21:2000 Enhanced

Ordering Information

Equipment	Part #
NetVanta 832T	
Annex A/B—Australia Power	4172832G1AUS
Annex A/B—UK Power	4172832G1UK
Annex A/B—EU Power	4172832G1EU