

VNTU 766 Series

VDSL Modem



- Point to point Ethernet extension over VDSL copper line
- CO and CPE mode selectable
- Automatic line rate selection
- VDSL rate over 100Mbps on short loop with possible reach of 300 meters DS
- Configurable DMT for one 100M/60Mbps DS/US
- Trellis coding support for up to 1024 DMT bins
- Simultaneous fast and slow path operation on any channel
- Support all committee T1E1.4 and ITU-T SG15Q4 for VDSL
- Support IEEE 802.3ah for 10PASS-TS (EFM)
- Front panel status LED indicators for easy monitoring
- Easy installation with console and WEB GUI
- Front panel test button for easy loop diagnostic
- Provides extensive diagnostics, including loopback, VDSL performance monitoring
- Easy software upgrade for field-deployed units via web browser
- Ethernet switching and bridging with VLAN prioritization and QoS
- DSL and Ethernet port surge protection
- Optimized symmetric band plan with up to 90M/90Mbps DS/US for special application

TAINET's VNTU series is the VDSL modem with Discrete Multi-Tone (DMT) Digital Subscriber Loop (DSL) digital modulator/demodulator processor unit for high speed Internet broadband access. VNTU series support all committee T1E1.4 and ITU-T SG15Q4 DSL discrete multi-tone based specification, as well as IEEE 802.3 10PASS-TS.

VNTU series works as an Ethernet extender through VDSL lines, it provides rich Ethernet features for different applications, including firewall, IEEE 802.1Q, policy-based QoS functions such as traffic policy, traffic meter, and flexible scheduling. It also supports port-based and tag-based VLAN with up to 16 VLAN groups. VNTU series also provide high-speed dedicated symmetrical data transmission and utilizes DSL bandwidth.

Furthermore, VNTU series is compatible with our iEAC-16, the intelligent Ethernet access chassis working as a central office device for Telecom Carrier and Service Providers to provide high density Ethernet Access Service.



Model

- VNTU 766S, 2-wire (RJ11), 1 Ethernet port
- VNTU 766SX, Coaxial (BNC), 1 Ethernet port

Line Interface - VDSL

- Connector: 1xRJ-11 or 1xBNC
- Type: 2 wire copper line or 1 coaxial cable
- Standard: T1E1.4 and ITU-T SG15Q4 VDSL
- Modulation: DMT (Discrete Multi-Tone)
- Trellis coding support for up to 1024 DMT bins
- Frequency: 12M (non-standard 17M)
- Band plan:
 - 998 ISDN: DS 100Mb/ US 60Mb
 - 997/symmetric ISDN: DS 85Mb/90Mb
- Rate Limit, SNR, band plan can be configured
- ITU K.21 compliant

DTE Interface - Ethernet

- Ethernet type: 10/100 BaseT
- Connector: 1xRJ-45
- Support 802.3x flow control
- Auto-MDI/MDIX detection
- Auto-negotiation for speed and duplex
- Full duplex / Half duplex support
- Support auto-polarity for 10Mbps

Ethernet L2 function

- Support 802.1d transparent bridge function
- 2K MAC learning address
- Support 802.3x flow control
- Provide In/Out port rate control
- Support Broadcast storm protection
- Class of Service support port based, MAC based, VID, VLAN priority, IPv4 ToS, TCP/UDP logical port and Multi-Field
- Support policy-based QoS
- Support 4-level priority queues per port
- Support 16 VLAN tables for port-based and tagged-based

Management

- Configuration via craft port VT-100, and WEB GUI
- Console: RJ45 connector (RS232C)
- Support remote management
- Local and Remote loopback for diagnostic
- Support Performance Monitoring function
- Front panel test button for easy loop healthy testing
- Front panel reset to default button

LED Indicators

- VNTU:
 - PWR, TST, LNK, CO, DSL, LAN LNK, LAN SPD

Power Requirement

- AC/DC, DC/DC external power adapter (12V, 1A)
- Dual 12VDC power jack input for redundancy
- Support power feeding for remote unit
- Power consumption: 6W

Safety

- CE and FCC part 15 Class B
- Surge protection on DSL and Ethernet port

Dimension

- 87(W) x 172(D) x 24(H) mm

Operating Environment

- Operation Temperature: 0 °C ~ 50 °C
- Storage Temperature: -40 °C ~ 70 °C
- Humidity: 90%, non-condensing

Note:

1. "*" for future release
2. Features and specifications are subject to change without prior notice.

