

# ENTU 763HS+

# Ethernet Network Termination Unit



Comply with IEEE 802.3, 802.3u, 802.3ab and 802.3z Ethernet Standard

Support IEEE 802.3ah In-band and TS 1000 OAM management

Front panel test button to trigger auto loopback test

Comply with SFF-8472 industry-standard and support SFP DDM (Digital Diagnostics Monitoring)

Support WDM Bi-directional SFP module with specific wavelength for various distance

Support copper line cable diagnostics feature

Comply with IEEE 802.1q Tag VLAN

Support Q-in-Q function

Maximum Frame size 9K bytes

Ethernet bandwidth Control

Support 10/100BASE-TX and 10/100/1000BASE-T, Flow Control, Auto MDI/MDIX, and Manual setting

LED indicators for ease of network diagnostic

Support Link Status Transparent

Alarm : Interruption to Electrical / optical interface · Power failure · Thermal failure on Chassis and Login UNMS system failed · SFP DDM

Firmware upgrade via HTTP

In- band IP NMS Interface supported

Centralized management for CO-side equipment

iEAC-16 chassis supports 16 Line cards

Report all alarm status to the designated NMS and computer terminal interface

TAINET's new Ethernet Network Terminal Unit Series allows the operator to separate each user's traffic and offer services such as inter-office LAN connectivity, Internet access and secure virtual private networks (VPNs). This approach extends the service over fiber, facilitating management of differentiated services up to the customer premises while ensuring service level agreement (SLA) enforcement.

ENTU 763S/FE and GE are so called Ethernet Media Data Converter (MDC), It can convert 10/100/1000 BASE-TX to 1000BASE-X or 1000BASE-T to 10/100/1000 BASE-X via optical fiber cable to extend transmission distance. At the customer premise which allows the operator to reach customer over fiber, while still providing a standard Ethernet copper connection, and being part of the operator's network, enables the converter to act as a demarcation point between the operator and the customer. Ethernet in the Local Loop reduces carrier expenses, since Ethernet ports are far less expensive than other options, TAINET's cost-effective, remotely-managed ENTU series is an ideal fiber solution for every carrier's Local Loop because it provides access regardless of the backbone technology, and cost saving which can be passed on by the carrier to consumers.

TAINET's iEAC-16 is a 2U high 19" rack containing a controller MCU-16, redundant AC/DC power modules and 16 slots with ENTU763C+ types of line cards. Therefore, iEAC-16 is able to extend Ethernet traffic over optical fiber, copper line such as G.SHDSL.bis line with 2w/4w/8w and VDSL line with 2-wire copper or coaxial cable. iEAC-16 is an ideal product to provide high density Ethernet extender installation in central offices or enterprises.



**Model**

- ENTU 763HS+/GE, industrial standalone Gigabit Ethernet NTU Standalone and card type versions can be placed in CPE and CO equipment.

**Network Interface**

- Connector type: SFP-LC
- 100Base-FX or 1000Base-X SFP port
- ▶ Support SFP DDM (Digital Diagnostic Monitoring): Compliant with SFF-8472 SFP DDM (Digital Diagnostic Monitoring), temperature, supply voltage, bias current, transmitted power, received power
- 100BASE-FX with the transmission speed of 100Mbps, 1000BASE-FX with the transmission speed of 1000Mbps, single-core bidirectional SFP module
- For detailed wavelength and distance of SFP modules, please refer to SFP Transceivers datasheet

**User Interface**

- Connector type: Shield RJ-45 jack
- 10/100Base-Tx / 1000Base-T
- Auto-MDI/MDIX detection and Manual setting
- Auto-negotiation 10/100Base-TX for speed and Full duplex / Half
- Support 10/100/1000Base-T for speed and Full duplex
- Support copper line cable diagnostics feature
- Complies with IEEE 802.1q Tag VLAN (including Q-in-Q)
- Ethernet bandwidth control and support Jumbo frame

**Management & OAM Functions**

- Configuration via DIP switch
- Configuration via craft port VT-100 and WEB GUI
- Console: RJ45 connector (RS232C)
- HTTP firmware upgrade
- RMON counter
- Front panel test button for easy loop healthy testing
- Reset button back to factory default
- Support warning threshold for setting the upper and lower limit of optical parameters. When parameters monitor reaches the limit, it will send a warning message

- Support IEEE 802.3ah Link Layer OAM
  - ▶ Auto discovery
  - ▶ Link monitoring
  - ▶ Remote loopback test
  - ▶ Remote fault detection
    - Link Fault Reflection
    - Dying Gasp
    - Critical Event
- Support TS-1000 OAM
  - ▶ Loopback test
  - ▶ Reset remote device
  - ▶ Get remote device information
  - ▶ Remote port setting

**LED Indicators**

- ENTU 763+ series:
  - ▶ PWR, LNK, CO, TST, DPX, RF, LAN LNK/SPD

**Power Requirement**

- AC/DC, DC/DC external power adapter (12V, 0.5A)
- Power consumption:
  - ▶ ENTU 763HS+/GE = 3.3W

**Dimension**

- ENTU 763HS+: 87(W) x 172(D) x 24(H) mm

**Operating Environment**

- Operating temperature: 0 °C ~ 65 °C
- Storage Temperature: -20 °C ~ 70 °C
- Humidity: 90%, non-condensing

**Carrier/ Service Provider/ Campus/ Enterprise/ Utility**

