FNTU 761

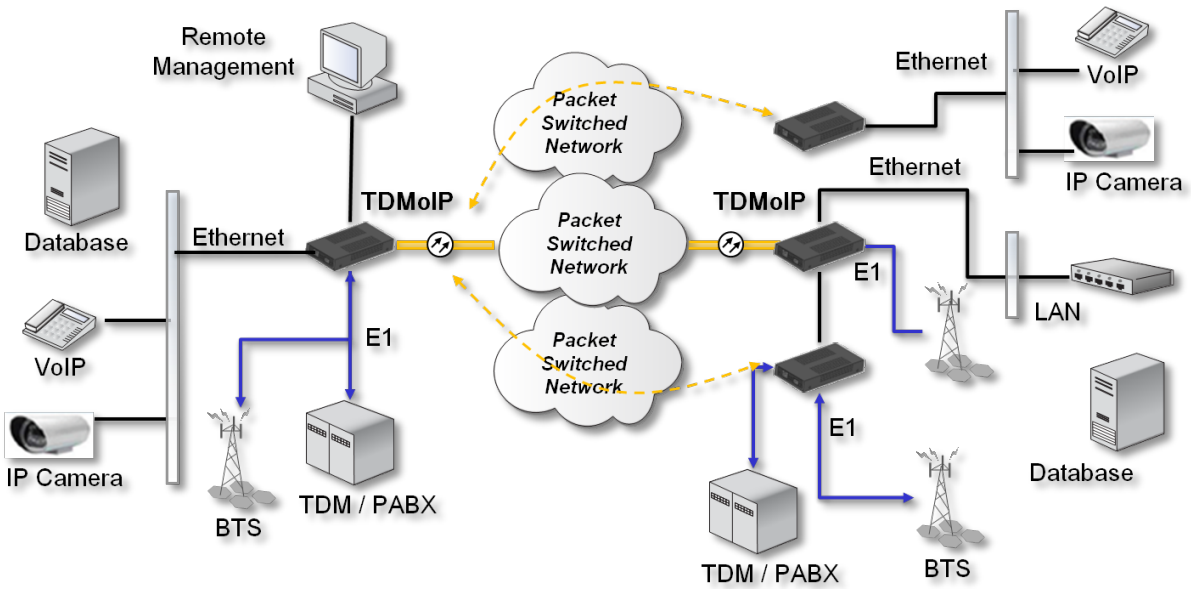
E1 over Gigabit Ethernet Fiber Multiplexer



- Comply with IEEE 802.3, 802.3i, 802.3u, 802.3ab and 802.3z gigabit Ethernet standard
- Front panel test button to trigger OAM auto loopback test
- Support SFP DDM (Digital Diagnostics Monitoring)
- Support WDM Bi-directional SFP module with specific wavelength for various distance
- 4 Balanced/Unbalanced E1 interfaces over TCP/IP network
- Ethernet supports copper line cable diagnostics feature
- Comply with IEEE 802.1q Tag-base, port-base, and Q-in-Q VLAN
- Support 802.1P/TOS/DSCP/Port-priority QoS function
- Support Dying Gasp function
- Maximum Frame size 9K bytes
- Ethernet bandwidth Control
- Support IGMP Snooping
- Alarm prompt indication on network failure
- DIP Switch quick link or WEB GUI operation

TAINET Fiber Ethernet Network Terminal Unit (FNTU) 761 series allow the operator to provide Ethernet data traffic and TDM E1 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.

The FNTU 761 series applies fiber Ethernet technology provides pseudo wire/circuit multiplex services for TDM E1 streams across a packet network based on VPN, IP, or Ethernet. One of its target applications is the transparent TDM E1 port interconnection via the IP networks (using Ethernet packets). And the advantage is the multiplexing of four TDM E1 ports connectivity to remote location.



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Model

- FNTU 761C, chassis line card, Gigabit Ethernet NTU (RJ-48 Connector)
- FNTU 761CU, chassis line card, Gigabit Ethernet NTU (BNC Connector)
- FNTU 761S, standalone Gigabit Ethernet NTU (RJ-48 Connector)
- FNTU 761SU, standalone Gigabit Ethernet NTU (BNC Connector)

Optical Interface

- Connector type: SFP-LC
- One port for 1000Base-X SFP modules
- Support SFP DDM (Digital Diagnostic Monitoring): Temperature, Voltage, Current, Tx Power, Rx Power
- For detailed wavelength and distance of SFP modules, please refer to SFP Transceivers datasheet

Ethernet Interface

- Connector type: Shield RJ-45 jack
- Two ports for 10/ 100/ 1000 Base-T
- Auto-MDI/ MDIX detection
- Auto-negotiation for speed and Full/Half duplex support
- Support Ethernet cable diagnostics feature
- Complies with IEEE 802.1q Tag VLAN (including Q-in-Q)
- Bandwidth control and support 9K Jumbo frame
- Dying Gasp
- IGMP Snooping

TDM E1 Interface

- Connector type：4 standard G.703 E1 interfaces (RJ-48C) (FNTU761S/C), BNC connector (FNTU761SU/CU)
- Line impedance：75 ohms or 120 ohms ± 5 % resistive
- Line Code：HDB3
- Line rate：2.048Mbps ± 50ppm
- G.704 Framing with CRC or Unframe mode support.
- Jitter performance: compliant with ITU-T G.823
- DS0 Bypass On/ Off
- Support Local/ Remote Loopback diagnostics

System Functions

- Complies with IEFT draft standard for CESoPSN (IETF RFC5086) and SAToP (IETF RFC4553); Metro Ethernet Forum MEF8 IA
- Clock mode: Adaptive, Internal, Receive
- Support TFTP/ Telnet/ HTTP protocol
- Configuration via DIP switch, Telnet CLI, WEB GUI or SNMP
- TFTP/ HTTP firmware upgrade
- RMON counters
- Front panel test button for easy loop healthy testing
- Reset button back to factory default
- Ethernet port mirror
- Support IEEE 802.3ah Link Layer OAM
  - Loopback test
  - Dying Gasp

LED Indicators

- PWR, LNK, TST, ALM, E1, LAN LNK/SPD

Power Requirement

- AC/ DC, DC/ DC external power adapter (12V, 1A)
- Power consumption: 6.8W

Certification

- CE Mark：EN 55022, 55024, 61000-3-2, 61000-3-3, IEC 61000-4-2, 61000-4-3, 61000-4-4, 61000-4-5, 61000-4-6, 61000-4-8, 61000-4-11

Dimension

- 86.2 (W) x 172 (D) x 49.6 (H) mm

Operating Environment

- Operation Temperature：0 °C ~ 50 °C
- Storage Temperature：-20 °C ~ 80 °C
- Humidity：90%, non-condensing

