ENTU 783

10G Optical MDC/ Switch
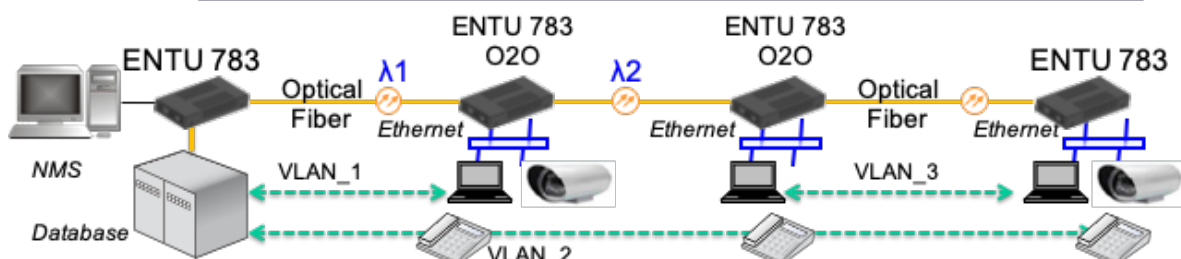
- ➤ One Copper Interface: Comply with IEEE 802.3u/ 802.3ab/ 802.3bz/ 802.3an standard as 100Base-Tx/ 1000Base-T/ NBase-T/ 10GBase-T (100M/1G/2.5G/5G/10G), Auto Negotiation
- ➤ Three Optical Fiber Interface: Comply with IEEE 802.3z and 802.3ae standard as 1000Base-X and 10GBase-R, those use SFP+ to 10GBASE-SR, 10GBASE-LR, 10GBASE-ER or 10GBASE-ZR for different transmission distance and wavelength
- ➤ Compact size, Triple optical ports Media Data Converter (MDC) in one mini box.
- ➤ Support IEEE 802.3ah In-band OAM for remote management
- ➤ Comply with SFF-8472 industry-standard and support SFP DDM (Digital Diagnostics Monitoring)
- ➤ Support IEEE 802.3x Flow Control, Auto MDI/MDIX
- ➤ Support cable diagnostics feature for copper wires
- ➤ Comply with IEEE 802.1q Tag based VLAN
- ➤ Support IEEE 802.1ad Q-in-Q function
- ➤ Maximum Frame size 12K bytes (Jumbo frame)
- ➤ Ethernet Storm and Bandwidth control (Rate Limit)
- ➤ Support port trunking and STP/ RSTP for loop prevention
- ➤ Provide RMON counter, ACL, Mirror and VLAN Translation.
- ➤ Laser Auto-shutdown, LLCF and RFD for optical link protection.
- ➤ Management by Web (HTTPs) and SNMP V1/V2c/V3 supported
- ➤ Report all alarm status to the designated NMS and computer terminal interface

ENTU 783 series is so called 10G fiber optical switch, or Ethernet Media Data Converter (MDC). The interface of ENTU 783 includes one 10G Ethernet port and three Optical SFP+ ports. With the physical quick setting dip switch on the back panel, the user can easily select from MDC mode to the Ethernet Switch mode. In order to interoperate with different line rates, it supports flow control which can send pause frames dynamically to control the transmitting rate so it won't be overwhelmed with data packets.

At the customer premise, ENTU 783 provides link protection, bandwidth combination and loop prevention. Deploying at the operators' network, SNMP and RMON feature allows the operators to monitor remotely. As the functions like Q-in-Q, it can separate each user's traffic while preserving the VLAN tag from the data. Overall, it is an ideal device to act as a demarcation point between the operators and the customers.

Switch mode O2O and Linear mode VLAN Application

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Model

- ENTU 783S, Triple optical link 10G Ethernet NTU Standalone
- ENTU 783C, Triple optical link 10G Ethernet NTU card type.

Network Interface: Optical SFP

- Connector type: 3 x SFP+
- 10GBase-R or 1000Base-X port
- Allow for 10GBASE-SR, 10GBASE-LR, 10GBASE-ER and 10GBASE-ZR in different transmission distance
- Automatic Laser Shutdown (ALS)
- IEEE 802.3ad Port Trunking: Bandwidth Aggregation by join the trunk hash.
- Support SFP DDM (Digital Diagnostic Monitoring):
  - ☞ Compliant with SFF-8472 SFP DDM (Digital Diagnostic Monitoring), include temperature, supply voltage, bias current, transmitted and received power
- For detailed wavelength and distance of SFP+ modules, please refer to SFP+ Transceivers datasheet

User Interface: Ethernet

- Connector type: One shield RJ-45 jack
- Auto-negotiation 100M/1G/2.5G/5G/10G different speed
- Auto-MDI/MDIX detection
- Support cable diagnostics feature for copper wires

Networking Function

- Link Transparent in Media Data Converter (MDC) mode
- IEEE 802.3x Flow Control
- Ethernet bandwidth control
- RMON counter
- Ethernet Port Mirror
- Maximum frame size up to 12k byte (Jumbo Frame)
- Complies with IEEE 802.1p QoS
- DHCP & SNTP Client
- VLAN Translation
- IEEE 802.1q Tagged based VLAN
- IEEE 802.1ad Q-in-Q
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.1d STP, IEEE 802.1w RSTP

Management & OAM Functions

- Quick setup MDC or Ethernet Switch mode via DIP switch
- Configure via WEB (HTTPs) or SNMP V1/V2c/V3
- RJ45 connector (RS232C): Craft port
- TFTP/HTTP firmware upgrade
- Reset button back to factory default
- Support warning threshold for setting the upper and lower limit of optical parameters to send a warning message
- Support IEEE 802.3ah Link Layer OAM
  - ☞ Auto discovery
  - ☞ Link monitoring
  - ☞ Loopback test
  - ☞ Dying Gasp
  - ☞ Fully remote control device
- Enhanced Login security check
  - ☞ Three access levels for administrator, operator, user and operation log
  - ☞ Support login password complexity of 6 characters, lower and uppercase letters, digits, special symbols
  - ☞ Anti camouflage attack mechanism: lock IP and delay login

LED Indicators

- PWR, Port 1~4: LNK/SPD

Power Requirement

- AC/DC, DC/DC external power adapter (12V, 2A)
- Power consumption < 15W

Dimension

- ENTU 783: 89(W) x 175(D) x 37(H) mm

Operating Environment

- Operating temperature: 0 ºC ~ 50 ºC
- Storage Temperature: -20 ºC ~ 70 ºC
- Humidity: 90%, non-condensing

Note:

** Features and specifications are subject to change without prior notice

Ring Protection and VLAN Application