

- 1U 19" metal case
- 1 GPON port
- 4 ports with IEEE 802.3at PoE+ support
- Passive cooling



NTU-MD500P — optical network terminals which have 4 ports of 10/100/1000BASE-T with IEEE 802.3at PoE+ support. The NTU-MD500P terminals provide up to 30 W of power on 10/100/1000BASE-T ports having 65 W of power budget.

Support for PoE technology allows NTU-MD500P to supply power via UTP cable to IP phones, wireless access points, IP cameras and other PoE-enabled devices.

Technical specifications

Interfaces	
GPON	1
10/100/1000BASE-T (RJ-45) PoE	4
Physical specifications and environmental parameters	
Power supply	110-250 V AC, 50-60 Hz
PoE budget	65 W
Dimensions (W × H × D)	267 × 44 × 178, 19" 1U
Maximum power consumption	80 W
Cooling	passive
Weight	1.56 kg
Operating temperature	from 0 to + 40 °C
Operating humidity	no more than 80 %

Features and capabilities

Configuration and monitoring

- PoE management and monitoring via OMCI:
 - ONU-G::PSE overload yellow
 - ONU-G::PSE overload red
 - Physical path termination point Ethernet UNI::Power control
 - Power over Ethernet control::Operational state
 - Power over Ethernet control::Power detection status
 - Power over Ethernet control::Power classification status
 - Power over Ethernet control::Current Power Consumption
 - Power over Ethernet control::AVC
 - Power over Ethernet control::Power priority
- Group management and monitoring via SNMP-agent OLT, CLI OLT
- According to TR-142:
 - Remote management via OMCI
 - Remote management via TR-069

- Local management via web, CLI
- Firmware update: OMCI, TR-069, HTTP, TFTP

PON interface parameters

- 1 GPON port
- Compliance with ITU-T G.984.2, ITU-T G.984.5 Filter, FSAN Class B+, SFF-8472
- Connector type: SC/APC
- Transmission medium: single-mode optical fiber (SMF) — 9/125, G.652
- Maximum operating distance: 20 km
- Transmitter: 1310 nm DFB Laser, burst mode
 - Data rate: 1244 Mbps
 - Average launch power: +0,5..+5 dBm
 - Spectral line width: 1 nm (-20 dB)
- Receiver: 1490 nm APD/TIA digital receiver, CW Mode
 - Data rate: 2488 Mbps
 - Receiver sensitivity: -28 dBm, BER≤1.0×10⁻¹⁰
 - Receiver optical overload: -8 dBm

Features and capabilities

Functional features

- Support for TR-069
- Operation in “bridge” or “router” (including virtual) modes
- Support for PPPoE (auto, PAP, MSCHAP and CHAP authorization)
- Support for IPoE (DHCP-client and static)
- Support for VPN in L2TP mode
- Support for L2TP over IPSec
- Support for IPSec (transport mode)
- DHCP server on the LAN side
- Support for DNS (Domain Name System)
- Support for DynDNS (Dynamic DNS)
- Support for UPnP (Universal Plug and Play)
- Support for NAT (Network Address Translation)
- Support for NTP (Network Time Protocol)
- Support for Quality of Service (QoS) mechanisms
- Support for IGMP Snooping

- Support for IGMP Proxy
- VLAN in compliance with IEEE 802.1Q

PoE

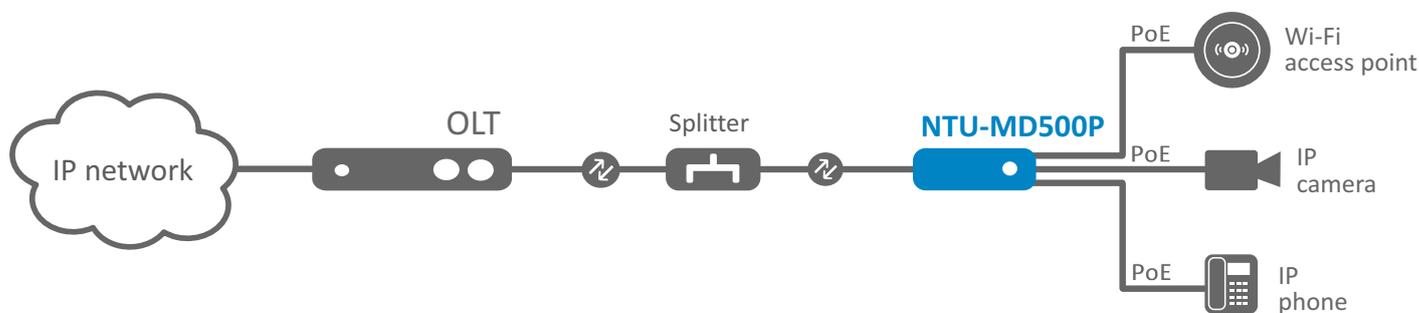
- Support for IEEE 802.3af PoE (up to 15.4 W per port) and IEEE 802.3at PoE+ (up to 30 W per port)¹ standards on ports
- PoE budget: 65 W

Standards

- ITU-T G.984.x
- GPON: ITU-T G.988 OMCI specification
- IEEE 802.1D
- IEEE 802.1Q
- IEEE 802.1P
- IEEE 802.3af
- IEEE 802.3at

¹ The power consumption of each port is measured and calculated in real time. The total power consumption for all ports is compared with the power budget (65 W). When the power consumption reaches the power budget threshold, the low-priority ports are shut down.

Use case



Ordering information

Name	Description
NTU-MD500P	NTU-MD500P, 4 ports of LAN 10/100/1000BASE-T, 1 × GPON

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About ELTEX

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