

OPTICAL NETWORK UNIT (ONU)

ONU 1001i

**COST EFFECTIVE GEPON CUSTOMER PREMISE DEVICE
WITH A 10/100/1000M BASE-T USER INTERFACE**



KEY FEATURES

**FULL IEEE 802.3/802.3AH
COMPLIANCE**

RX SENSITIVITY OF -25.5 DBM

TX POWER OF -1 TO +4 DBM

PLUG AND PLAY

ADVANCED L2 FUNCTIONALITY

**ADVANCED QUALITY OF
SERVICE (QOS) SUPPORT ENABLE
SLA BASED BILLING**

INGRESS RATE LIMIT

REMOTE MANAGEMENT

NEC ONU 1001i is a cost-effective GEPON customer premise device designed for FTTB application. It supplies Gigabit broadband service to a connected subscriber's gateway and/or computers. The Ethernet port's auto-negotiation feature enables dynamic recognition and support for 10/100/1000Mbps Ethernet interconnections based on subscriber network requirements.

ONU 1001i provides advanced L2 functionality for Data service. It is configured and managed remotely via NEC's ME product family (OLT).

APPLICATIONS

ONU 1001i is suited for residential and SOHO market segments. It provides an uplink to the central office through its GEPON port, and a downlink to the individual residential user or SOHO through one Ethernet ports. A future-proof solution enabling FTTx, ONU 1001i delivers voice, high rate data and IPTV over a single fiber.

Technical Specifications

STANDARDS

- IEEE 802.3ah

OPTICAL CHARACTERISTICS

- Optical Fiber: Single SMF fiber
- Connector type: SC/UPC connector
- Max split: 32
- Data rate: 1 Gbps up and down stream
- Operation Tx wavelength: 1310 nm
- Operation Rx wavelength: 1490 nm
- Output Power: -1~ +4 dBm
- Receiver Sensitivity: -25.5dBm

L2 CAPABILITIES

- IEEE 802.1q Port based VLANs
- MAC Address Management, 64 MAC addresses
- Ingress rate limiting
- IEEE 802.3x Flow Control

QoS CAPABILITIES

- IEEE 802.1p, and DSCP
- Traffic Classification based on MAC, LAN Port and VLAN ID
- Traffic IEEE 802.1p Remarking
- 4 priority classes for WAN port scheduling
- SP/WRR Scheduling

MANAGEMENT

- Remote Management through OLT, SNMP, SNMPv2
- Remote firmware upgrade
- Dying Gasp Alarm

FRONT INTERFACE

- POWER – LED indication of power status
- LAN - LED indication of Ethernet link operation status
- GEAPON-LED indication of PON link operational status
- ALARM-LED indication of module alarm status

REAR INTERFACES

- 1 power connector
- 1RJ-45 10/100M Ethernet
- 1 GEAPON SC connector

HARDWARE

DIMENSION

- (H x W x D) 30mm x 187mm x 110mm

WEIGHT

- 0.655 kg

MTBF

- 798,959 hours

POWER CONSUMPTION

- External power supply with 100-240V AC input & 12V DC/2A output
- 6W Max
- UPS interface

ENVIRONMENTAL SPECIFICATIONS

OPERATING TEMPERATURE

- 0°C to +40° C

RELATIVE HUMIDITY

- 5% to 90% non condensing

STORAGE TEMPERATURE

- -40 to +75° C

STORAGE HUMIDITY

- 75% (maximum)

STANDARDS AND REGULATORY COMPLIANCE

CERTIFICATIONS

- VCCI, CCC, FCC, ROHS6



Safety Precautions

★Before installing, connection or using this product, be sure to carefully read and observe the cautionary and prohibited matters provided in the instruction manual.

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