

## OPTICAL NETWORK UNIT (ONU)

# ONU 101i

**COST EFFECTIVE GEPON CUSTOMER PREMISE DEVICE  
WITH 10/100M BASE-T 1-PORT SWITCH**



### KEY FEATURES

**FULL IEEE 802.3/802.3AH COMPLIANCE**

**RX SENSITIVITY OF -26 DBM**

**TX POWER OF -1 TO +4 DBM**

**REACH OF 20KM**

**PLUG AND PLAY**

**ADVANCED L2 FUNCTIONALITY**

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

**128-BIT AES**

**DBA FUNCTIONALITY**

**SECURE ACCESS VIA ACLS**

**IGMP SNOOPING SUPPORT**

**RENOTE MANAGEMENT**

NEC ONU 101i is a cost-effective GEPON customer premise device designed for indoor residential and Single Office/Home Office (SOHO) installation. It supplies broadband service to a connected subscriber's gateway and/or computers. ONU 101i provides one 10/100M Base-T Ethernet ports. The ONU 101i is configured and managed remotely via NEC's ME series product family (OLT).

### APPLICATIONS

ONU 101i 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 cost effective solution enabling FTTx, ONU 101i delivers high rate data and IPTV over a signal fiber.

# Technical Specifications

## STANDARDS

- IEEE 802.3ah

## OPTICAL CHARACTERISTICS

- Optical Fiber: Single SMF fiber
- Connector type: SC 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: -26dB

## 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, SNTp, SNMPv2
- Remote firmware upgrade
- WEB based Management

## MTBF:

388179.24 hours

## HARDWARE

### DIMENSION

- (H x W x D) 39mm x 200mm x 150mm

### FRONT INTERFACE

- POWER – LED indication of Power status
- LAN– LED indication of FE1 Link operational status
- GEPON – LED indication of PON Link operational status
- ALARM– LED indication of module alarm status

### REAR INTERFACES

- 1 Power connector
- 1 RJ-45 10/100M Ethernet
  
- 1 GEPON SC Connector

### POWER CONSUMPTION

- Input 100-240V AC
- 12W Max, 6 Watts average
- Option of European, North America or China Power Adaptor

## ENVIRONMENTAL SPECIFICATIONS

### OPERATING TEMPERATURE

- 0°C to +50° C

### RELATIVE HUMIDITY

- 95% non condensing

### STORAGE TEMPERATURE

- -25 to +70° C

### STORAGE HUMIDITY

- 75% (maximum)

## STANDARDS AND REGULATORY COMPLIANCE CERTIFICATIONS

- CE, FCC, ROHS6, CCC



### 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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### Published by:

NEC Corporation  
Global Network Division

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