Empowered by Innovation **NEC**

OPTICAL NETWORK UNIT (ONU)

ONU 208i

COST EFFECTIVE GEPON CUSTOMER PREMISE DEVICE WITH 8 10/100M BASE-T 1-PORT

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 FUNCTIONALITY

ADVANCED L2 FUNCTIONALITY

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

SECURE ACCESS VIA ACLS

IGMP SNOPPING SUPPORT

PER PORT INGRESS RATE LIMIT

REMOTE MANAGEMENT

DYING GASP

NEC ONU 208i is a cost-effective GEPON customer premise device designed for indoor residential and Single Office/Home Office (SOHO) building installation. It supplies Gigabit broadband service to a connected subscriber's gateway and/or computers. ONU 208i provides eight 10/100M Base-T Ethernet ports with advanced L2 functionality for Data and IPTV video services. The ONU 208i is configured and managed remotely via NEC's ME series product family (OLT).

APPLICATIONS

ONU 208i is suited for residential and SOHO building 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 eight Ethernet ports. Its provides comprehensive L2 switching, QoS and security features for SOHOH/Building applications. A future-proof cost effective solution enabling FTTx, ONU 208i 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/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
• Receiver Saturation: -3dBm

L2 CAPABILITIES
• IEEE 802.1q Port based VLAN, 256VLAN
• MAC Address Management, 8K MAC address
• STP support
• Per port ingress rate limiting
• IEEE 802.3x Flow Control
• IGMP Snooping: 16 address per LAN port

QoS CAPABILITIES

• IEEE 802.1p IPv4 ToS and Diffserv
• Traffic Classification based on MAC, LAN Port
 and VLAN ID
• Traffic IEEE 802.1p Remarking
• 4 egress queues for LAN and WAN port
• SP/WRR/SP+WRR Scheduling

SECURITY

• LAN port isolation
• Broadcast, Multicast,DLF storm prevention
• MAC address filtering/ limit

MANAGEMENT
• Remote Management through OLT, SNTP,
  SNMPv2
• Remote firmware upgrade
• WEB based management

FRONT INTERFACE

• POWER – LED indication of power status
• LAN1 to LAN 8-LED indication of FE1-8 link
operation status
• GEPON-LED indication of PON link operational
status
• ALARM-LED indication of module alarm status

REAR INTERFACES
• 1 power connector
• 8RJ-45 10/100M Ethernet
• 1 GEPON SC connector
• 1 Reset button for factory defaults setting

HARDWARE
DIMENSION

• (H x W x D) 38mm x 226mm x 152mm

WEIGHT
• 0.490 kg

MTBF
• 639,247 hours

POWER CONSUMPTION
• External power supply with 100-240V AC input &
12V DC/1A output
• 10W Max, 6 Watts average
• UPS interface

ENVIRONMENTAL SPECIFICATIONS
OPERATING TEMPERATURE
• 0ºC to +40º C
RELATIVE HUMIDITY
• 5% to 90% non condensing
STORAGE TEMPERATURE

• –40 to +75º C

STORAGE HUMIDITY

• 75% (maximum)
STANDARDS AND REGULATORY COMPLIANCE
CERTIFICATIONS
• CE, 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.

For inquiries, contact :