

ONU 2024

COST-EFFECTIVE GEAPON CUSTOMER PREMISE DEVICE WITH INTEGRATED 10/100 BASE-T 24-PORT SWITCH

DELIVERS HIGH SPEED DATA SERVICES OVER GIGABIT ETHERNET PASSIVE OPTICAL NETWORKS (GEAPON)



- **FULL IEEE 802.3/802.3AH COMPLIANCE**
- **HIGHEST SPEED PON**
- **MODULAR DESIGN**
- **PAIR PLUGGABLE GIGABIT ETHERNET MODULES FOR REDUNDANCY**
- **ADVANCED QoS**
- **REMOTE MANAGEMENT**
- **IGMP SNOOPING**

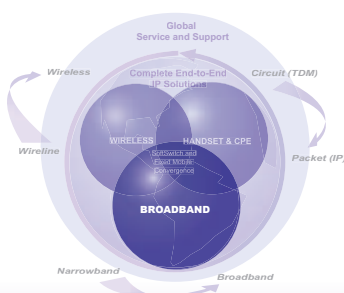
The UTStarcom ONU 2024 is a cost-effective GEAPON customer premise device designed for inbuilding installations. It supplies Gigabit broadband service to connected subscriber gateways and/or computers. ONU 2024 features a modular design with paired slots available for either two plug-in GEAPON ONU modules or two Gigabit Ethernet modules. ONU 2024 also provides 24 10/100Base-T Ethernet interfaces for data communication. The ONU 2024 is configured and managed remotely via UTStarcom's BBS product family (OLT).

APPLICATIONS

ONU 2024 provides a redundant pair of uplinks to the central office via either GEAPON or Gigabit Ethernet ports, and 24 downlinks to residential users through fast Ethernet ports.

FEATURES

- Full IEEE 802.3/802.3ah compliance
- Wire-speed Layer 2 switching
- Highest speed PON: pair pluggable Gigabit ONU modules
- "Plug-and-play" via auto-discovery and configuration
- Advanced QoS functions enable billing by Service Level Agreement
- Remote management with advanced OAM functions
- IGMP Snooping
- 8K MAC address table
- 255 VLAN entries
- Support 802.1d STP, 802.1w RSTP, 802.1s Multiple STP
- Secure access via Access Control List (ACL)
- Rate limiting
- IEEE802.3x flow control for full-duplex, back pressure for half-duplex
- DHCP client for auto IP address acquisition
- SNTP client for auto time synchronization
- Low input optical power
- Low EMI and certified ESD protection



Technical Specifications



HARDWARE

PHYSICAL

Dimensions: 440mm (H) x 410mm (W) x 43mm (D)
Weight: 3.58Kg

POWER

Redundant Power Supply (RPS) connectivity
AC in 100~240V, DC out 12V DC
35W Maximum

OPERATING REQUIREMENTS

Temperature: 0 ~ 40 °C
Humidity: 5% ~ 95 %, Non-condensing

STORAGE REQUIREMENTS

Temperature: -40 ~ 70 °C
Humidity: 5% ~ 95 %, Non-condensing

MODULE FUNCTIONS

PON STANDARDS

IEEE 802.3ah

USER AUTHENTICATION

IEEE 802.1x

OPTICAL CHARACTERISTICS

Optical Fiber: SMF (Single Mode Fiber)
Connector type: SC/UPC connector
Max split: 32
Data rate: 1 Gbps up and down stream
Optical loss budget: 29dB
Operation wavelength range: Tx: 1310 nm
Rx: 1490 nm
Output Power: -1~ +3 dBm
Max Reach: 20Km
Receiver Sensitivity: -26dBm
Receiver Saturation: -3dBm

FRONT INTERFACE

LEDs: Power, Alarm, LAN Link Status and PON Link Status
Ports: RS232 console, GEAPON SC connector, 24 RJ-45 10/100M Ethernet

REAR INTERFACE

2 Power connectors

CERTIFICATIONS

VCCI, CE, CISPR, and FCC Class A

24 PORTS L2 SWITCH CHARACTERISTICS

MAC address: 8K
Flow Control and Back Pressure
Per port configuration based on rate control and limit
Supports IGMP snooping (v1/v2) queries
Provides CoS by IEEE802.1p; 4-level priority provided
Traffic Classification/Priority Management based on IP precedence/TOS
Traffic Classification by DSCP
Traffic Classification/Priority Management based on TCP port number
Configuration download/upload via TFTP
255 VLAN support
Spanning Tree
MAC filtering security
SNMP access IP filtering

MANAGEMENT

Telnet, Remote system software upgrade, EMS through OLT

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About UTStarcom, Inc.

UTStarcom is a global leader in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless, and handset solutions to operators in both emerging and established telecommunications markets around the world. UTStarcom enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks. Founded in 1991 and headquartered in Alameda, California, the company has research and design operations in the United States, China, Korea and India. UTStarcom is a FORTUNE 1000 company. For more information about UTStarcom, visit the company's Web site at www.utstar.com

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