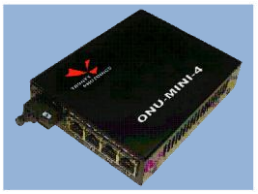
Products WDM-PONs BusPON C-series System

BusPON C-series is the first deployed WDM PON system. With the patent BusPON technology and L3 high capacity switching chipsets, the second generation BusPON C-series is high performance and compact solution for both Metro and Access Networks. BusPON C-series system comprises Optical Central Units (OCU), Optical Network Units (ONU) and Optical Taps/WDM.

BusPON C-series Optical Central Unit



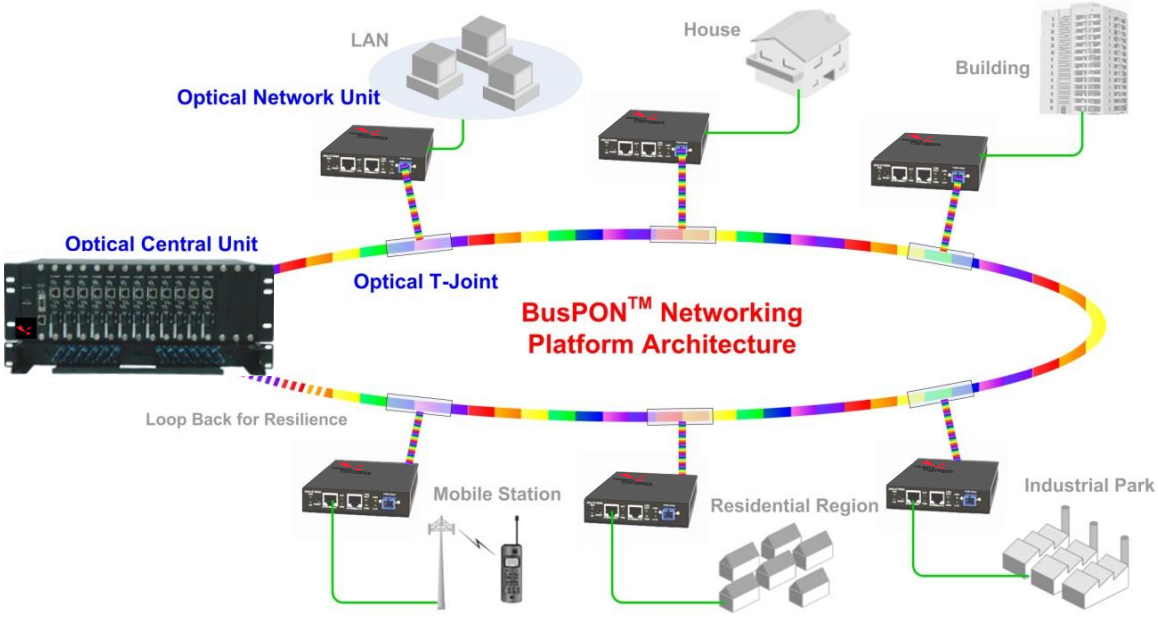
BusPON C-series Optical Network Units

Features:

- Bus or Tree topologies
- up to 16 optical nodes (single fiber)
- from 1 Gbps to 160 Gbps (duplex bandwidth per optical node)
- 50 km range (standard)
- no intermediate switches/repeaters required
- concurrent Multi- Service Network (IP based, RoF, HD-SDI etc.)
- compatible with copper network (Telephone, Cat5/6 and Coaxial)
- Centralized network management/bandwidth control
- In service scalability and upgradeability
- Intelligent self-healing/resilience by IBFC (Optional)

Application:

- Wireless backhaul (4G/WiMAX)
- Fiber-to-the-Home / Fiber-to-the Building
- Multi-service access networks
- P2P/xDSL/CATV/EPON/GPON/XGPON upgrade
- Railway networks
- Real-time HD/3D video networks (broadcast and display)
- Cloud application with massive wireless access
- High performance data centers



Trinity Photonics © 2007

BusPON can be incorporated with IBFC (Intelligent Bi-directional Flow Control) module – a self-healing system which can realize single fiber resilience without in-line active devices. Please contact our technical team for more details: tech@tphoton.com

Trinity Photonics Manufacturing Co. Ltd.
Unit 209C, 2/F Enterprise Building
Hong Kong Science Park
Shatin
Hong Kong

Web: www.tphoton.com
Email: info@tphoton.com

Phone: (852) 51698755
Fax: (852) 51698954

Your Partner for the Next Generation Network

1. BusPON C-series Optical Central Unit (OCU)

Network Standards:

- IEEE 802.3ab 1000Base-T
- IEEE 802.3z 1000Base-SX/LX
- IEEE 802.3u 1000Base-FX
- IEEE 802.3ae 10Gb/s Ethernet

Regulation Compliance:

- FCC Class A, CE-mark Class A, RoHS
- Laser Eye Safety EN60825, IEC6082

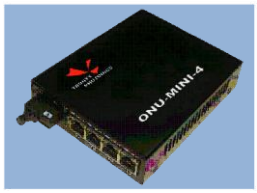
Specification:

- CWDM wavelength from 1270nm to 1610nm (ITU-T G694.2)
- Control up to 16 nodes per fiber and total 48 nodes per module
- Tx Optical Power > 0.6dBm; Rx Sensitivity: -34 dBm
- Max serviceable distance: 50km single mode fiber
- Delivered Bandwidth Per Fiber:
  8 Gbps (OCU-C8)
  16 Gbps (OCU-C16)
- Internal Switching Capacity > 96 Gbps (L2) / 192 Gbps (L3)
- Date Rate: Full Duplex 1 Gbps or 10 Gbps
- Optical MUX/DEMUX: 8 channels (OCU-C8) and 16 channels (OCU-C16)
- Operation Condition: 0 to 50°C and 10 to 90% RH
- Dimension: 2U for 24 node, 3U for 48 nodes
  For L2 switching fabric: 442mm x 316mm x 44mm
  For L3 switching fabric: 442mm x 374mm x 44mm
- Power: AC220V/AC110V/DC-48V

2. BusPON C-series Optical Network Unit (ONU)

Specification:

- CWDM wavelength from 1270nm to 1610nm (ITU-T G694.2)
- Bi-directional Optical Transceiver
- Optical parameters:
  Tx Optical Power > 0.6dBm
  Rx Sensitivity: -34 dBm
- Max serviceable distance: 50km single mode fiber
- Data Rate: 1 Gbps
- Two options for Gigabit ONU:
  M1 (1 UTP port)
  M4 (4 UTP ports)
- Operation Condition: 0 to 50°C and 10 to 90% RH
- Dimension:
  25mm x 70mm x 95mm (ONU-C8/16-Gx-M1)
  30mm x 110mm x 140mm (ONU-C8/16-Gx-M4)
  Dimensions for 10G ONU varied with no. of nodes and range
- Power: DC5V/2A



BusPON C-series Optical Network Units

Network Standards:

- IEEE 802.3ab 1000Base-T
- IEEE 802.3z 1000Base-SX/LX
- IEEE 802.3u 1000Base-FX
- IEEE 802.3ae 10Gb/s Ethernet

Regulation Compliance:

- FCC Class A, CE-mark Class A, RoHS
- Laser Eye Safety EN60825, IEC6082

Selection Guide for BusPON C-series System

Optical Central Unit (OCU)	*OCU-C-x-G-y*	x – no. of wavelength 8 = 8 wavelengths (1470nm to 1610nm) 16 = 16 wavelength (1310nm to 1610nm) y – no. of node (from 8 to 384) * note: no. of output fiber = quotient of y/x
Optical Network Unit (ONU)	*ONU-C-xx-M-y*	x – wavelength number for Tx 01=1470nm,02=1490nm,03=1510nm,04=1530nm 05=1550nm,06=1570nm,07=1590nm,08=1610nm 09=1310nm,10=1330nm,11=1350nm,12=1370nm 13=1390nm,14=1410nm,15=1430nm,16=1450nm y – no. of UTP port 1 = 10/100/1000M UTP port x 1 4 = 10/100/1000M UTP port x 4

Trinity Photonics can provide customized optical taps and web-based Network Management System for any network requirement. For more information, please contact our project team for details: project@tphoton.com

Trinity Photonics Manufacturing Co. Ltd.
Unit 209C, 2/F Enterprise Building
Hong Kong Science Park
Shatin
Hong Kong

Web: www.tphoton.com
Email: info@tphoton.com
Phone: (852) 51698755
Fax: (852) 51698954