

HFC & Optical Node

Access Solutions
Easier to expand your network

- **FTTB RX, 1 & 2 OUTPUT PORTS, DC VOLTAGE IN**
- **FTTB RX&TX, 1 & 2 OUTPUT PORTS, DC OR AC VOLTAGE IN**
- **FTTCURB RX&TX, 2 RF OUTPUT PORTS**
- **FTTCURB RX&TX, 4 RF OUTPUT PORTS**

The RB/RC series optical nodes are designed to meet various requirements for modular and flexible solutions in fiber optic network, enabling high performance data, telephony, and TV services.

For establishing and developing the state-of-the-art products in the field of RF over fiber, ECM is committed to be a permanent and reliable entity for customers and partners.



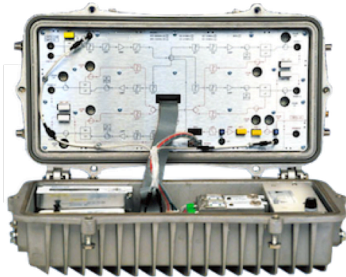
RB-1100 series (Rx only, 1~2 pots, DC input)

- 1 ~ 2 ports RF output, 104dB μ V typical per port
- Input power, DC 12V



RB-1200 series (RX&TX, 1~2 ports, DC or AC input)

- 1 ~ 2 ports RF output, 104dB μ V typical per port
- Input power, DC 12V / AC 150 ~ 265V
- Return optical transmitter, +3dBm DFB



RC-1200 series (RX&TX, 2 output ports, AC input)

- 2 RF output ports, 108dB μ V typical per port
- AC 150 ~ 265V / AC 35 ~ 90V
- Return optical transmitter, +3dBm DFB



RC-1200 series (RX&TX, 4 output ports, AC input)

- 4RF output ports, 108dB μ V typical per port
- AC 150 ~ 265V / AC 35 ~ 90V
- Return optical transmitter, +3dBm DFB

BENEFIT & DESCRIPTION

High flexible integration, cost effective are major benefits of ECM'S RB/RC series products. ECM offers a methodology for customers to maximize operational efficiently by selecting optical node that works reliably across multiple platforms.

We also provide customization to meet different conditions, for example, RF output level and ports, DC or AC power input selection and redundancy for forward or return path, in accordance with real environment.

FEATURES & SPECIFICATIONS

GENERAL SPECIFICATIONS

- Storage Temperature -40 ~ 85°C
- Operating Temperature -40 ~ 60°C
- Power Input
 - RB-1100/1200 series DC12V / AC 150~265V
 - RC-1200 series AC 150~265V / AC 35~90V

OPTICAL SPECIFICATIONS

- SC/APC Connector
- Receiver Wavelength 1290 ~ 1610nm
- Optical Input Range +2 ~ -9dBm
- AGC Range, +2 ~ -9dBm
- Tx Power
 - RB-1200 series, +3±1.5dBm
 - RC-1200 series, +3±1.5dBm

ELECTRICAL SPECIFICATIONS

- Frequency Bandwidth
 - Tx 5~42/65/85
 - Rx 54/85/105 ~ 1002MHz
- RF Output Level
 - RB-1100/1200 series 104/108dBμV
 - RC-1200 series 108dBμV
- CNR
 - RB-1100/1200 series, ≥ 51dB@-1dBm input, OMI 3.5%/ch
 - RC-1200 series, ≥ 51dB@-2dBm input, OMI 3.5%/ch

- CTB
 - RB-1100/1200 series, ≥ 51dB@-1dBm input, OMI 3.5%/ch
 - RC-1200 series, ≥ 51dB@-2dBm input, OMI 3.5%/ch
- CSO
 - RB-1100/1200 series, ≥ 51dB@-1dBm input, OMI 3.5%/ch
 - RC-1200 series, ≥ 51dB@-2dBm input, OMI 3.5%/ch

FEATURES

- RF output level with AGC over wide optical input power range, up to 10dBm
- Equalizer 0 ~ 15dB
- Attenuation 0 ~ 15dB
- Transmitter burst mode DFB LD operation
- NPR Dynamic Range @ 30dB NPR 15dB minimum
- PON WDM is available(1310&1490/1550&1610nm)
- Multiple diplexer filter options
- Redundancy for forward & return path
- Local power feeding or Remote power feeding
- User friendly fiber management