

LIGHTEM HFC 4 and 8 ways Return Path Optical CATV Receiver

Lightem L4RPRX / L8RPRX series HFC four ways return path receiver convert upstream optical signal to RF signal at the head-end and remote control center. Four independent receivers integrated into a 1RU 19" casing to supply service for HFC network terminal. Features low noise design, -22dBm receive sensitivity. Option with LCD display, It can be installed in any environment including outdoor. Features SNMP function which can control the front panel to realize optimization work at the head-end and remote installment.

L4RPRX / L8RPRX-A series: with LCD display

L4RPRX / L8RPRX-B series: without LCD display



L4RPRX



L8RPRX

FEATURES

- 4 and 8 low noise optical receiver, up to -22dBm receive sensitivity
- 1200~1620nm wider wavelength
- SNMP network management function option
- RF output level can be adjusted by network
- Built-in 1+1 backup power, redundant A/B inputs (option)
- -40~+65°C operating temperature
- Simple mode, 19" 1RU mount, contain 4 and 8 pcs of independent optical receiver
- Excellent P/P ratio

APPLICATION

- FTTH HFC - L4RPRX
- HFC - L8RPRX



L4RPRX



L8RPRX

SPECIFICATIONS

| Optic Features | Min | Typ. | Max. | Remarks |
|----------------------------|---------|--------------|-------|---------------------------|
| Operating wavelength | 1200 | | 1620 | (nm) |
| Responsivity R13 | 0.85 | 0.95 | | (A/W) 1310nm |
| R15 | 0.85 | 1.0 | | 1550nm |
| R16 | | 0.85 | | 1610nm |
| Optical link budget loss | 17 | | | (dB) |
| Receiving power Typical | -17 | | -7 | (dBm) |
| Sensitivity | | -23 | -22 | (dBm) Pr |
| Overload | 0 | +1 | | Po |
| Number of optical receiver | | 4/8 | | (pcs) |
| Return loss | 55 | | | (dB) |
| Optical connector | | SC/APC | | LC/APC optional |
| RF feature | | | | |
| Operating Bandwidth | 5 | | 200 | (MHz) |
| RF Output level | 30 | | 60 | (dBmV) |
| RF gain adjustable | -18/-30 | | 0 | (dB) |
| Flatness | -0.75 | | 0.75 | (dB) |
| Return loss | 16 | | | (dB) |
| RF test point/monitor | -20.5 | -20 | -19.5 | (dB) |
| Noise power ratio | 37 | | | (dB) FP, link loss > 15dB |
| | 41 | | | DFB, link loss > 15dB |
| General feature | | | | |
| Power supply | 90 | 220 | 265 | (V) |
| | -30 | -48 | -72 | |
| Power consumption | | | 48/96 | (W) |
| Operating Temperature | -40 | | +65 | (°C) |
| Relative humidity | 5 | | 95 | (%) |
| Size (W)×(D)×(H) | | 483x 305x 44 | | (mm) |

ORDERING INFORMATION

| PN | DESCRIPTION |
|-----------------|---|
| LaRPRX-cdeeff-x | |
| a | 4- HFC 4 ways return path optical receiver |
| -c | 8- HFC 8 ways return path optical receiver |
| -d | LCD display A: with LCD display B: without LCD display |
| -ee | Network management N: without M: with |
| -ff | Optical connector SA: SC/APC FA: FC/APC LA: LC/APC |
| X | Power supply 22: 220V AC 11: 110V AC 48: 48V DC |
| | M with SNMP Network Management |
| | N without SNMP Network Management |