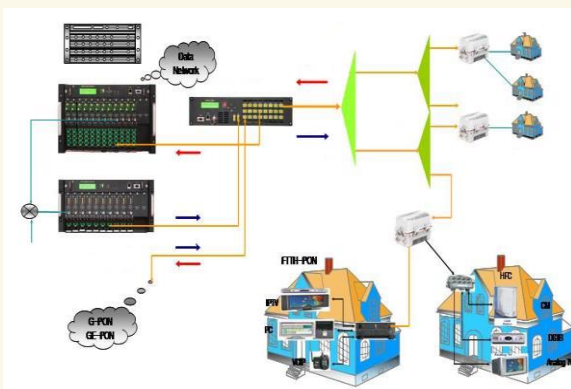


Fiber Optic RF Units for U



Integrated Shelf-ForU platform is for a full-functioning Radio Frequency over Glass system. The platform includes video transmission, data transmission and also provides the physical interface to various FTTH system.

The OCT series is designed for forward path transmission of 1550nm optical signal. Analogue video signal, QAM digital video signal, and QAM digital data signal are fed into the input of the OCT series and converted into 1550nm optical signal and transmitted to HFC/CATV networks.

CATV EDFA series is LiComm optical amplifier housed in 19" in shelf with power supply inside. The shelf type series is suitable for CATV application or PON(Passive Optical Networks) that requires stand-alone operation. Also, multiple output ports, such as 4, 8, 16, 20, 32 ports are available in the shelf type package.

The ORR series provides CATV distribution head-end operators with an extensive array of features and offers a low-cost solutions with enhanced system performances. The ORR series is a compact indoor CMTS receivers delivering multiplexed CMTS return signals for HFC (hybrid fiber coax) or RFoG application.



Features

- Multi function shelf for EDFA, Transmitter & CMTS Receiver
- CATV-network-proven low noise figure and suppressed non-linearity performance
- Quad output ports with quad filter for PON & Return path
- Designed for CMTS forward/return path applications.
- RF test port in the front panel for input RF signal monitoring
- Control & monitor with RS232, SNMP
- AV110 ~ 245volt(standard) or DC -48 volt power supply

Application

- Optical CATV with CMTS & PON
- CATV networks
 - Power booster, ONU
 - Distribution, Super trunk
- CATV broadcasting systems
- Receiver module for optical CATV network in HFC and FTTx nodes
- Video overlay in passive optical networks (PON)





CATV Optical Transmitter Characteristics

Parameter	OCT-10xx-3C
Wavelength	1528 ~ 1563nm
Output Optical Power	9 ~ 11dBm
Optical Input Return Loss	< -40dB
Side Mode Suppression Ratio	> 30dB
Bandwidth	47 ~ 1002 MHz
Frequency Response	< 2 dBp-p
Input RF Signal level	10~20 dBmV
Input Impedance	75 Ohm
Input Return Loss	< -15 dB
RF Test Port	-21 ~ -19 dB
AGC Range	-5 ~ +5 dB
OMI Setup Range	-2 ~ +2 dB
MGC Range	-5 ~ +5 dB
Carrier to Noise Ratio (CNR)	> 50 dB
Composite Second-Order (CSO)	>58 dBc
Composite Triple Beat (CTB)	> 63 dBc
X-MOD	> 63 dBc



CATV EDFA Optical Characteristics

Parameter	CCT-1704	CCD-2308
Signal Wavelength Range	1528 ~ 1562 nm	1545~1562nm
Input Power	< -5 dBm	-10 ~ +12dBm
Output Saturation Power	17 dBm	23dBm
Number of Output Ports	4 ports	8 Ports
Noise Figure(@ 0dBm, 1550nm input)	5 dB	6 dB
Package Type	Slot	19 inch 2U



ONU Characteristics

Parameter	ORS-10xx-Hx-40
Down Stream	
Input Optical Power	-8 ~ 0 dBm
Optic Loss AGC	-8 ~ 0 dBm
Input Wavelength	1290 ~ 1610 nm
Responsivity (@1550nm)	> 0.9 A/W
Optical Input Return loss	< -40 dB
Bandwidth	54 ~ 1000 MHz
Up Tilt	6 ~ 8 dBp-p
Output RF signal level @870MHz	38 ~ 42 dBmV/ch
Output Impedance	75 Ohm
Output Return Loss	≤ -14 dB
Carrier to Noise Ratio (CNR) @-5 dBm	≥ 48 dB
Up Stream	
Output Optical Power	+2 ~ +6 dBm
Output Wavelength	1270 ~ 1610 nm
Bandwidth	5 ~ 42 MHz
Frequency Response	< 1 dBp-p
Input RF Signal Level	15 ~ 35 dBmV
IMD3	≥ 60 dBc
RF Test Point	-21 ~ -19 dB
Input Return Loss	≤ -14 dB



CMTS Optical Receiver Characteristics

Parameter	ORR- 02-3C
Input Optical Power	-23 ~ -10 dBm
Optical Input Return Loss	< -40 dB
Bandwidth	5 ~ 200 MHz
Frequency Ripple(5MHz ~ 200MHz)	< 1 dBp-p
RF Gain Control Range	-9 ~ +9 dB
Output RF Signal Level	35 dBmV/ch
Received Input Number	4
Output Connector	F – type female
Output Impedance	75 Ohm
Output Return Loss	< -16 dB
IMD3	> 60 dBc

LiComm Co., Ltd.

Address 109, Baekja-ro Idong-eup, Cheoin-gu, Yongin-Si, Gyeonggi-Do, 17126, Korea
Tel: +82-31-323-1926 **Fax:** +82-31-323-2447
E-mail: sales@licomm.com **Website :** www.licomm.com