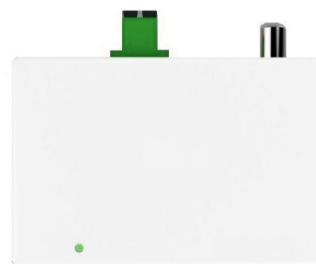


## OPR -OPTICAL PICO RECEIVER

The OPR is designed by DCT DELTA to terminate the CATV-signal in FTTH networks. The new OPR includes an additional passive filter to separate and forward the xPON signal to an xPON port. The implemented automatic gain control "AGC mode" keeps the RF output level constant for a wide optical input range. A tri-color LED emits red, green and yellow light and show in which range the optical connected power is.



### Features

- RF output level of 76 dBuV @OMI=4% per channel
- Complete surge suppression circuit, anti-lightning strike and surge shock prevention ability
- Stable and reliable AGC control function
- Tri-color LED shows the range of the optical input power to the mFN-WF Node
- Total power consumption below 2.0W

OPR-CATV-PON			
Optical Parameter	Receiving optical wavelength	nm	250 ~ 1620
	Receiving optical power	dBm	+2 ~ -16
	Optical reflection loss	dB	≥ 45
	Optical filter insertion loss	dB	max. 1.5
	LED optical monitoring display	dBm	Red > 2 dBm Yellow ≤ -8 dBm +2dBm ≥ green > -8 dBm
	Connector		LC/APC
RF Parameter	Frequency range	MHz	47 ~ 1006 / 1218
	Output RF impedance	Ohms	75
	Flatness	dB	+/-1
	RF return loss	dB	≥ 18
	Nominal output electrical level	dBuV	76 +- 2dB
	AGC control accuracy	dBm	-12 ~ +2
General	MER	dB	≥36 (93 DVB_c 256 QAM)
	External switch power		Input: 100 ~ 240VAC 50 – 60Hz Output: 5VDC 1A (12 V optional)
	Consumption	W	≤2.0W
	Operation temperature	°C	-20 ~ +60
	Operation humidity		20% ~ 90%, No Condensation
	IP safety class		IP 20
	Mechanical dimension	mm	118.6 x 78.6 x 29
	Colour		White
Optical feed-through xPON filter integrated		Compatible with GPON, XG(S)-PON, NG-PON2 PTP	

Type	Item No.	Description
OPR-12-LC-PON	57004228	Optical Pico Receiver with integrated feed-through xPON filter, LC/APC connectors
OPR-12-SC	57004272	Optical Pico Receiver with integrated xPON blocking filter, SC/APC connectors

## PRODUCT OVERVIEW OPTICAL NODES ACCESSORIES

Type	Item No.	Description
FOSTRA F V2 868.VER	57004089	FSK Receiver RX : 868.3 MHz
FOSTRA F V2.1 Tuneable VER	57003909	FSK Receiver RX : 860 - 890 MHz
FOSTRA F V2.5 Tuneable VER	57004321	FSK Receiver RX : 860 - 890 MHz
RLK 565-1	57002732	Diplexer, 5-65 / 85 - 1218 MHz
RLK 585-1	57002733	Diplexer, 5-85 / 105 - 1218 MHz
RLK 5200	57002776	Diplexer, 5-204 / 258 - 1218 MHz
VM 302	57002092	Splitter, two-way, 4.5 dB
AM 301-10 A	57002093	Tap 10 dB, Tap out
AM 301-10 B	57002117	Tap 10 dB, Line out
LPF 5-65	57002295	Low pass filter 5-65 MHz
LPF 5-85	57002296	Low pass filter 5-85 MHz
HPF 85-1	57002297	High pass filter 85-1218 MHz
HPF 105-1	57002298	High pass filter 105-1218 MHz
PAD 0/1...20	10161523/24...43	Attenuation PAD 0 dB/1 dB...20 dB

Available CWDM wavelengths					
27: 1270 nm	31: 1310 nm	41: 1410 nm	51: 1510 nm	61: 1610 nm	00: only DS (CATV)
29: 1290 nm	33: 1330 nm	43: 1430 nm	53: 1530 nm		
	35: 1350 nm	45: 1450 nm	57: 1570 nm		
	37: 1370 nm	47: 1470 nm	59: 1590 nm		
	39: 1390 nm	49: 1490 nm			