

# RFoG optical return path receiver

ORX-4C-200 RFoG

10420092

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- Designed for converting optical upstream signals into RF signals in head-ends and hubs, especially for usage in RFoG network topologies
- Supports Docsis 3.0 upstream channel bonding in PON architectures
- 4 separate optical return path receivers in one compact device
- Connection of up to 256 optical RFoG micro nodes (e. g. 4 clusters with each 64 RFoG micro nodes)
- Microprocessor-controlled adjustment of system parameters using frontal keypads or via a web interface (RJ 45 or RS 232)
- **The device is switchable from "RFoG" mode to "normal" mode (continuous light at the entrance)**
- Monitoring of the optical input power via web interface in "normal" mode
- Extremely high input sensitivity

- Very high RF output level for each receiver, depending on the relevant optical input level
- Fine tuning of the RF output level for each receiver by using internal attenuators
- Optical status indication with LEDs and built-in LCD monitor
- Separate test points for measuring the RF output levels (front side)
- Extremely wide operating temperature range, thereby suitable in almost all environmental conditions
- 2 power supplies with each 50 % load sharing, in case of a failure of one power supply 100 % load transfer to the 2nd power supply
- Connector types: SC/APC (optical) and F-females (RF and test points) – E2000/APC alternative available

Parameter	ORX-4C-200 RFoG
Operating wavelength [nm]	1200 ... 1620
Optical input power range [dBm]	-27 ... -13
Equivalent noise current input [pA/√Hz]	1
Optical return loss [dB]	> 50
Test point per RF output [dB]	-20 ± 0,5
Return loss output [dB]	> 16
Return loss optical input [dB]	≥ 45
RF frequency range [MHz]	5 – 200
RF output level per receiver [dBμV]	90 ... 120 (e. g.: 98 dBμV at 10 % OMI, -27 dBm , ATT. = 0 dB)
Frequency response [dB]	± 0,75
Attenuator range per receiver [dB]	-30 ... 0 (in 1 dB steps via front site, in 0,5 dB steps via web interface)
Power consumption [W]	≤ 12
Operating temperature range [°C]	-40 ... +65
Dimensions (L x W x H) [mm]	480 x 325 x 44
Weight [kg]	2,0
Order No.	10420092