

OR265-nn

DUAL OPTICAL RETURN PATH RECEIVER FOR 2G6

Application

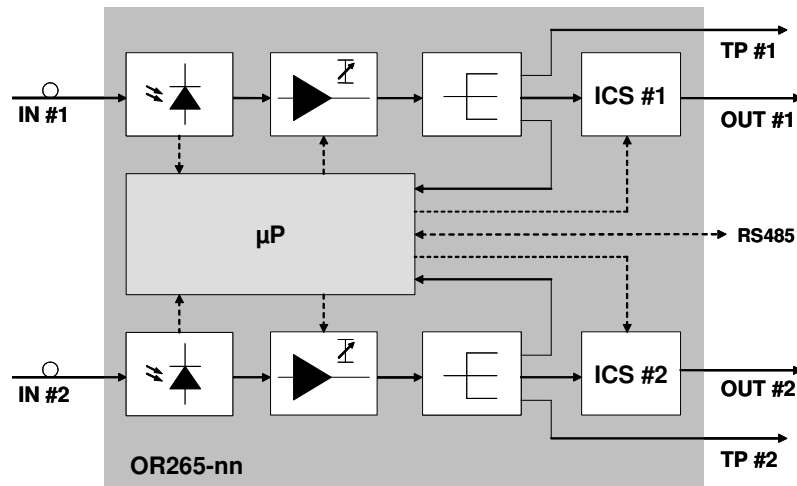
- ▶ Optical to electrical conversion of two return path signals in hybrid fiber coax (HFC) networks

Features

- ▶ Two independent optical receivers
- ▶ Bandwidth 5...65 MHz
- ▶ Two single outputs with -20dB test ports on front
- ▶ Pilot tone controlled AGC to keep the RF level independent from the optical input power
- ▶ Wide optical input power range
- ▶ Each receiver section can be disabled separately
- ▶ Optical power detection on both inputs
- ▶ Sleep mode for the unused receiver
- ▶ RS485 remote supervision and control interface
- ▶ SC/APC or E2000 connector as standard



Block Diagram



Technical Data

Optical Performance Data	OR265-11	OR265-16
Optical input power range	-11 ... +2 dBm	-16 ... -3 dBm
Optical wavelength	1280 ... 1610 nm	
Optical return loss	≥ 40 dB	
Detector responsivity	≥ 0.8 A/W	

RF Performance Data	OR265-11	OR265-16
RF bandwidth	5 ... 65 MHz	
Frequency flatness	±0.75 dB	
Receiver noise current (at minimum optical input power)	6 pA/√Hz	
RF impedance	75 Ω	
RF return loss	≥ 16 dB	
RF output level (at OMI= 15%) for total optical input range	95 dBμV	85 dBμV
Testpoint attenuation	20 dB	
Pilot tone frequency	590 ... 630 kHz	
Pilot tone OMI	5%	
Power consumption	≤ 3.6 W (2 active receivers) ≤ 2.6 W (1 active receiver) ≤ 1.5 W (no active receiver)	
Weight	~1.3 kg	

Safety, EMC, Environmental Conditions	OR265-11	OR265-16
Safety	EN 50 083-1 and EN 60 950 Laser Class 1M acc. IEC 60 825-1 (eyesafe for normal viewing)	
EMC	EN 50 083-2	
Equipment operation environmental conditions	Operation:	ETS 300 019, class 3.1
	Storage temperature:	ETS 300 019, class 1.2

Available Types

- OR265-11 Minimum optical input power -11 dBm
- OR265-16 Minimum optical input power -16 dBm