

## Triax ORB 823 and ORB 923 - Optical Receiver

### Art. No. 307562 and 307563

The Triax ORB 823/923 Optical Receiver provides an excellent and cost optimized one-way FTTx solution. The ORB 823 comes with potentiometer adjustments while ORB 923 uses JXP plug-in modules for output parameter configuration adjustments (gain and equalization).

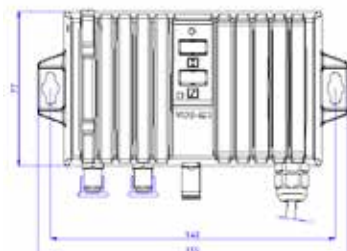
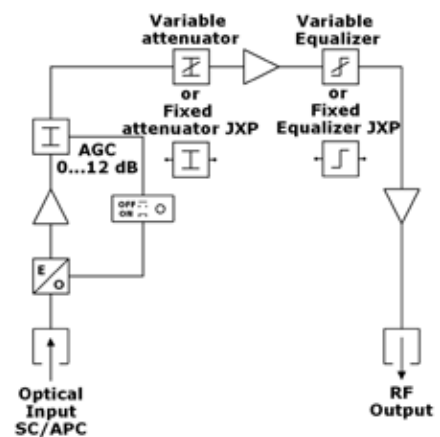
The Triax ORB 823/923 provides a built-in multi-colour LED diode for easy input power level identification. It has an optical SC/APC connector input, and an RF-output via F-connectors.

Simple construction and easy configuration provides significant cost reduction and simplified maintenance in modern HFC distribution networks.

- Easy configuration – potentiometer (823), or universal JXP-modules (823/923)
- Built-in AGC
- 3 stages LED indication of optical input power
- High Output Level (110 dB $\mu$ V – 42 ch. CENELEC)
- Very low power consumption <5,5W
- 3 kinds of overvoltage protection
- Switch Mode Power Supply (180-253 VAC)
- Die-cast housing



**ORB 823 and ORB 923**



**Technical data:**

- see next page



# Triax ORB 823 and ORB 923

## - Optical Receiver



### Technical data

Type Item no	ORB 823 307562	ORB 923 307563	Unit
<b>Optical parameters</b>			
Input level range ( $P_{IN}$ )		-8...+1	dBm
AGC range		-6...0	dBm
Optical return loss		>40	dB
Optical input wavelength		1100...1650	nm
Max. optical input level (no damage of photo diode)		+3	dBm
Optical power indicator (LED)	orange	$P_{IN} < -6$	dBm
	green	$-6 < P_{IN} < 0$	dBm
	red	$P_{IN} > 0$	dBm
Equivalent input noise current		8	pA/(Hz) <sup>1/2</sup>
Optical connector		SC/APC	
<b>RF parameters</b>			
Frequency range		47...862	MHz
Gain flatness		±0.75	dB
Max. output level (DIN 45004B)		123	dBμV
Max. output level (42. ch. CENELEC)	CTB<60 dBc	110	dBμV
9 dB slope, 3.5% OMI	CSO<60 dBc	110	dBμV
RF output stability in AGC range		±1	dB
Attenuator	adjustable 0...20	JXP plug-in 0...20	dB
Equalizer	JXP plug-in 0...20	JXP plug-in 0...20	dB
Return loss		>18 (40 MHz)-1.5dB/octave	dB
<b>Other</b>			
Operating voltage		180...253/50-60	VAC/Hz
Power consumption		5.5	W
Output connector		F-female	
Protection class		IP 40	
Operating temperature range		-20...+55	°C
Weight		0.76	Kg
Dimensions		155x56x96	mm

#### Fibre Optical Receiver and Nodes in the Triax Fibre Optics product family:

##### Optical receivers:

- ORH 100, 307565, Optical FTTH Receiver, Fixed, 80 dBμV (42 Ch. CENELEC)
- ORB 901, 307570, Optical Receiver, Jumpers, 104 dBμV (42 Ch. CENELEC)
- ORB 823, 307562, Optical Receiver, potentiometer, 110 dBμV (42 Ch. CENELEC)
- ORB 923, 307563, Optical Receiver, JXP-modules, 110 dBμV (42 Ch. CENELEC)
- ORB 829, 307567, Optical Receiver, potentiometer, 114 dBμV (42 Ch. CENELEC)
- ORB 929, 307568, Optical Receiver, JXP-modules, 114 dBμV (42 Ch. CENELEC)
- ORB 729/1, 307700, Optical Receiver, Local/remote, SNMP, 114 dBμV (42 Ch. CENELEC), 1 optical input, output splitter
- ORB 729/2, 307703, Optical Receiver, Local/remote, SNMP, 114 dBμV (42 Ch. CENELEC), 2 optical inputs, output splitter

##### Optical nodes:

- ORB 911, 307572, Optical Receiver Node, jumpers, 104 dBμV (42 Ch. CENELEC), Return path on separate fibre
- ORB 1823, 307716, Optical Receiver Node, potentiometer, 109 dBμV (42 Ch. CENELEC), Return path on separate fibre
- ORB 1923, 307712, Optical Receiver Node, JXP-modules, 109 dBμV (42 Ch. CENELEC), Return path on separate fibre
- ORC 1629, 307722, Optical Receiver Node, Local/remote, 114 dBμV (42 Ch. CENELEC), Return path on separate fibre, output splitter
- ORC 2729, 307724, Optical Receiver Node, Local/remote, SNMP\*, 114 dBμV (42 Ch. CENELEC), Redundancy in/outputs, output splitter

\*) via Ethernet/RJ45 and SPF-Tranciever

#### Recycling:

This product is manufactured in compliance with current EU environmental and recycling requirements and standards (WEEE, RoHS, etc.). Please observe your local implementation and requirements when recycling.

