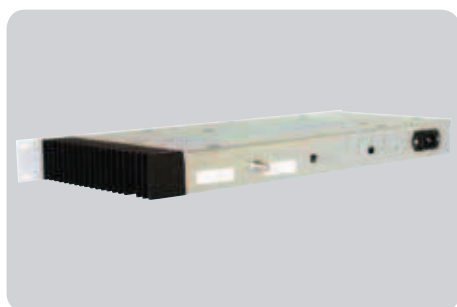


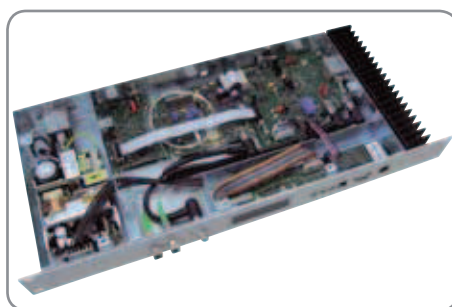
Triax hybrid coax optical transmitter

The Triax OTXS-xx optical transmitter converts electrical CATV signals into intensity modulated optical signals for transmission via optical fibre cables. The transmitter is built into a 19"/1 HU cabinet. Optical output, RF test point, interfaces for RS232 and Ethernet are located on the front panel in addition to a display and 3 buttons for handling. The RF input and the input for main power supply are situated on the rear panel.

The transmitter has the ability to be remote controlled via Ethernet using i.e. Internet Explorer or Firefox. SNMP monitoring read only is implemented. The modulation of the laser diode is gain controlled depending on the number of channels, so the optimum modulation index is always ensured. Additionally the transmitter owns the facility to adapt the modulation manually or via remote control.



OTXS - back



OTXS 0X



OTXS - front

Technical data

Type		OTXS 06	OTXS 08	OTXS 10	OTXS 12	OTXS 16	OTXS 20
Art. No.		307506	307508	307510	307512	307516	307520
Number of transmitters		1	1	1	1	1	1
Input connectors (for RF)		F-connector					
Output connectors (for fibre optic cable)		SC/APC					
RF input							
Frequency range	MHz	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862
Level (OMI = 5% @ 42 ch. CENELEC)	dB μ V	85 \pm 3	85 \pm 3	85 \pm 3	85 \pm 3	85 \pm 3	85 \pm 3
Adjustable offset	dB	\pm 3	\pm 3	\pm 3	\pm 3	\pm 3	\pm 3
Linearity	dB	\pm 1.5	\pm 1.5	\pm 1.5	\pm 1.5	\pm 1.5	\pm 1.5
Return loss	dB	>18	>18	>18	>18	>18	>18
CTB (Non linear distortion) (Popt in=4dBm, OMI=4%)	dB	>65	>65	>65	>65	>65	>65
CSO --	dB	>60	>60	>60	>60	>60	>60
Relative intensity noise	dB/Hz	<-155	<-155	<-155	<-155	<-155	<-155
Carrier to noise (Popt in=4dBm, OMI=4%, B=5MHz)	dB	>50	>50	>50	>50	>50	>50
Test point (F-connector, front)	dB	-20	-20	-20	-20	-20	-20
Optical System							
Laser type		DBF, cooled					
Optical output power	mW	6.0	8.0	10.0	12.0	16.0	20.0
Optical output power	dBm	8.0	9.0	10.0	11.0	12.0	13.0
Additional							
Control unit		3 buttons, LCD 2-lines/16 char.					
Remote control		RJ45, TCP/IP, SNMP r/o					
Cascade (for extra upstream receivers (ORxR))		Via RJ11					
Software update		RS232, 9-pin					
Housing		19", 1 HU					
Power supply	VAC	180 - 253					
Dimensions (w x h x d)	mm	480 x 43 x 205					

OTXSxxR, Return Channel Receiver fitted (more info upon request)

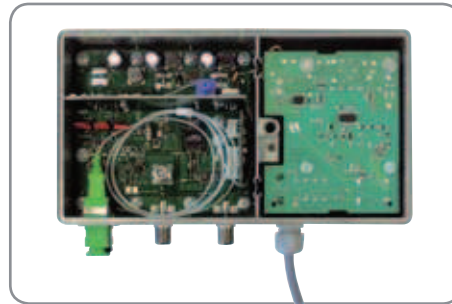
Triax Fibre optic receiver node

The Triax ORB 901 is a compact fibre optic receiver node product designed to work in tandem with the OTXS-xx fibre optic transmitter product. The Triax ORB 901 converts the fibre optic transmission signal back to a traditional coax based RF signal. An optional return channel board is available for a later upgrade, or at delivery under the type ORB 911.

The relatively wide sensitivity range of the unit means that it can be placed in many different places as 'islands' of CATV installations without too much focus on distance from the fibre optic transmitter. The ALC ensures a uniform output level independent upon input signal.



ORB 901 receiver node



ORB 901 receiver node

Technical data

Type		ORB 901	ORB 911
Art. No.		307570	307572
Input parameters			
Number of receivers		1	1
Input connectors (from transmitter)	GHz	SC/APC	SC/APC
Output connectors (for RF)	dB	F-female	F-female
Optical input power	dBm	-8 - +3	-8 - +3
Reception wavelength	nm	1290 - 1600	1290 - 1600
Frequency range	MHz	47 - 862	86 - 862
RF-output level (OMI= 5%@42 ch. CENELEC)	dBμV	104	104
Frequency response	dB	± 1	± 1
Return loss	dBm	>18	>18
Carrier to noise (Popt, in = - 2 dBm)	dB	52	52
Carrier to noise (Popt, in = - 8 dBm)	dB	45	45
Return Channel			
Frequency range	MHz		5 - 65
Frequency response	dB		± 2
Optical output power	dBm		0
Output connector (for fibre optic cable)	MHz		SC/APC
Wavelength	nm		1310
RF input	dBμV		85
Intermodulation (2nd and 3rd order, 2ch, OMI=5%)	dB		35
Reception wavelength	nm		1200 - 1600
Additional			
Power supply	VAC	180 - 253	180 - 253

