

Optical Distribution | SAT

OTX 51-00 | Optical transmitter

- ✓ For transmission of satellite signals and 16 CATV channels
- ✓ Incoming RF signals are converted into optical signals
- ✓ Automatic gain control
- ✓ 5 cascade RF outputs

ORX 14-00 | Optical receiver | Quad

- ✓ Converts optical signals into four independent subscriber outputs (SAT + TERR)
- ✓ For connection of four end devices (receivers)

ORX 14-01 | Optical receiver | Single cable

- ✓ Converts optical signals into 2 outputs with 16 user bands each
- ✓ Single cable I and II compatible (according to EN 50607 and EN 50494)

ORX 15-00 | Optical receiver | Quattro

- ✓ Converts optical signals into 4 SAT IF polarization levels and CATV channels
- ✓ To connect to a multiswitch

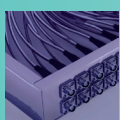


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Signals over long distances

For optical transmission of satellite signals and CATV channels, a transmitter, several receivers and a wide range of accessories of distributors, cables and attenuators are used.

The RF signals are converted into optical signals. These are distributed from the output of the transmitter via distributors and optical cables over long distances to optical receivers without noise or distortion. The receivers convert the optical signals back into satellite signals and the CATV channels. Devices are available as receivers for connection to SAT receivers (Quad), single-cable receivers (SCR/CSS) or multi-switches (Quattro).



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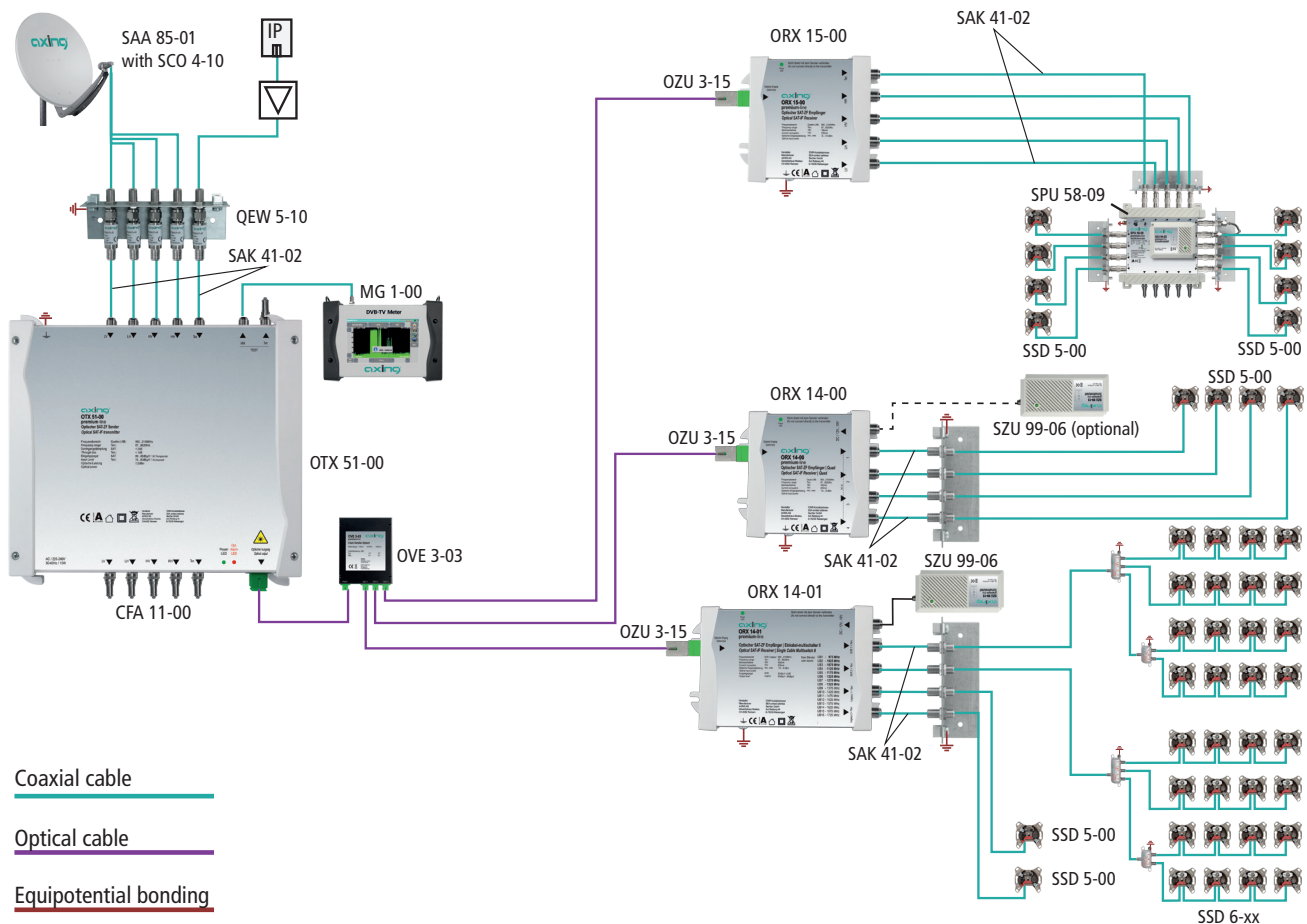
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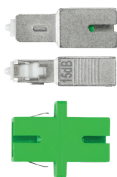
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Application example

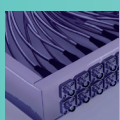


Available accessories:

OAK xx-03	Optical cable (1...500 m)
OVE x-03	Optical distributors (2-, 3-, 4-, 8-way)
OZU 3-xx	Optical attenuators (1, 3, 5, 10, 15, 20 dB)
OZU 1-03	Optical connectors
OZU 5-00	Adapter FC/PC to SC/APC



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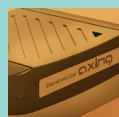
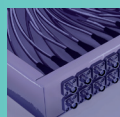
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Technical data

Type	OTX 51-00
Inputs	
Number	5
Frequency range	87 ... 862 MHz @ DVB-C/T/T2 950 ... 2150 MHz @ DVB-S/S2/S2X
Number of channels (DVB-C/T/T2)	max. 16
Input level	74 ... 80 dBμV @ DVB-C/T/T2 69 ... 86 dBμV @ DVB-S/S2/S2X
AGC level dynamics	20 dB
Max. LNB current	250 mA per input @ 14 V
Test ports	2
Test port frequency range (TERR SAT HH)	87 ... 862 950 ... 2150 MHz
Trunk outputs	
Number	5
Throug loss	< 2 dB
Type	F-female
Return loss	10 dB
Output	
Number of optical outputs	1
Optical connector	SC/APC
Optical return loss	> 45 dB
Optical level	+7.5 dBm
Wavelength	1310 nm
Safety class	1M
General	
Operating voltage	184 ... 264 VAC/50 ... 60Hz
Power consumption	15 W
Operating temperature range	−5 ... +50°C
Dimensions (W × H × D) appr.	230 × 230 × 50 mm
Weight	1.880 kg

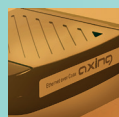
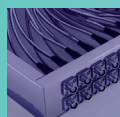


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Type	ORX 14-00	ORX 14-01
Input		
Optical connector	SC/APC	
Optical level	−14 ... −8 dBm	
Wavelength	1290 ... 1580 nm	
Optical return loss	> 45 dB	
Subscriber ports		
Number	4	
Type	4 × LEGACY (SAT + TERR)	2 × SCR (TERR + 16 UB) 2 × LEGACY (TERR + SAT)
Frequency range	87 ... 862 MHz @ DVB-C/T/T2 950 ... 2150 MHz @ DVB-S/S2/S2X	87 ... 862 MHz @ DVB-C/T/T2 950...2150 MHz @ DVB-S/S2/S2X
User band frequencies	-	975/1025/1075/1125/1175/1225/1275/1325 MHz @ EN 50494/50607 1375/1425/1475/1525/1575/1625/1675/1725 MHz @ EN 50607
Output level SAT (SCR/CSS)	-	82 dBµV ±2 dB
Output level SAT (Legacy)	-	65 ... 80 dBµV
RF connectors		
Type	F-female	
General		
Operating voltage	12 ... 18 VDC	
Power consumption	2.8 W	7.5 W
Current consumption	155 mA @ 18 VDC 200 mA @ 12 DC	430 mA @ 18 VDC 620 mA @ 12 VDV
Operating temperature range	−5 ... +50 °C	−5 ... +50°C
Dimensions (W × H × D) appr.	120 × 100 × 30 mm	160 × 100 × 30 mm
Weight	0.300 kg	0.450 kg

Type	ORX 15-00
Input	
Optical connector	SC/APC
Optical level	-14 ... -8 dBm
Wavelength	1310 nm
Optical return loss	> 45 dB
Output	
Type	TERR VL VH HL HH
Level @ 21 dB optical attenuation	82 dBμV @ DVB-C/T/T2 88 dBμV @ DVB-S/S2/S2X
Frequency range	87 ... 862 MHz @ DVB-C/T/T2 950 ... 2150 MHz @ DVB-S/S2/S2X
RF connectors	
Type	F female
Return loss	10 dB
General	
Operating voltage	14 ... 18 VDC
Power consumption	3.3 W
Current consumption	330 mA @ 18 VDC 380 mA @ 14 VDC
Operating temperature range	-5 ... +50°C
Dimensions (W × H × D) appr.	125 × 100 × 30 mm
Weight	0.324 kg



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