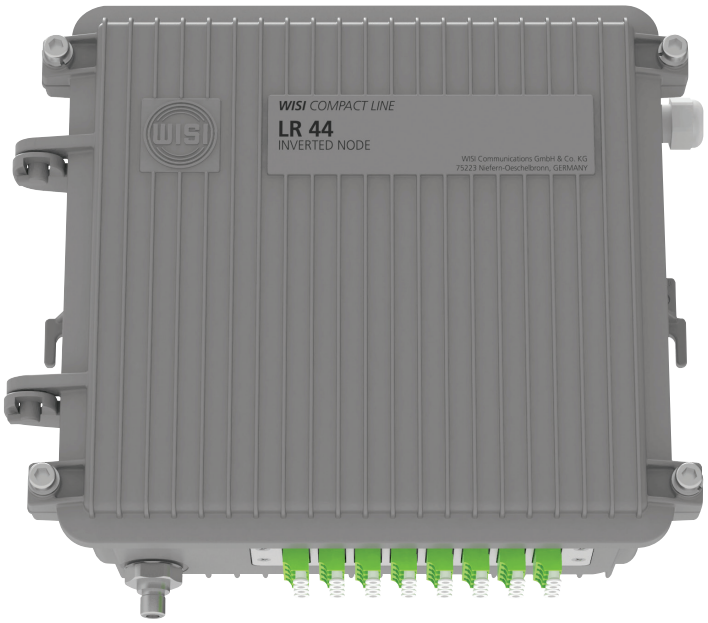
WISI DOCSIS 3.1 Inverted Node 8 Port LC-APC - 230VAC

20MM-LR44L8102

The LR44 inverted node is used for FTTX deployments to accommodate existing HFC plants. The highly integrated optical components allow the smallest footprint for OBI-free RFoG deployments, including optical amplification and high splitting ratios to connect up to 32 ports with options for further internal splits. In addition, this ruggedized housing supports installation in harsh environments like mining camps. With 1.2GHz in the downstream direction and up to 204MHz (electronic switchable diplexer) in the upstream direction providing flexibility, the LR44 is the first choice for innovative forerunners and established operators.



Features and Benefits

- Provide FTTX access through your existing HFC plant
- 8 port LC/APC outputs with >2.5dBm
- All settings available can be locally managed with an OH41 handset from WISI, web-based UI or via remote connected NMS with HMS transponder installed (VT52B, sold separate)
- RF AGC for regulated input levels
- DOCSIS-3.1-compliant frequency range: downstream up to 1.2 GHz, upstream up to 204 MHz (depending on diplexer)
- Ruggedized housing with operating temperature range -20 to +55°C

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20MM-LR44L8102 Specifications

General optical parameters	
Optical Input Power	LC /APC (optional: SC/APC for versions without internal splitter)
Optical Return Loss	>45 dB
Insertion Loss US (Out FN-> PD_US)	<1 dB
Decoupling COM -> PD_US	>60 dB
Upstream (US)	
Wavelength Range for Upstream	1260...1540/1560...1630 nm
RF Ports Impedance	75 Ω
RF Connector	F-type, female
Frequency Range	5(15)...204 MHz
RF Output Level	70...90 dBµV (OMI=5%/ch.)
Gain Flatness	max.30,75 dB
Test Point	-18 dB
Adjustable Attenuator	0...40 dB (0,5 dB steps)
Adjustable Slope	0...8 dB (0,5 dB steps)
RF Return Loss	>18 dB (-1 dB/oct., min. 16 dB)
Optical Input Power	-5...+3 dBm
Thermal Noise Power Density	<7 pA/√Hz
Down-Stream / DS	
Wavelength Range for Downstream	1555 nm (30,1 nm),(or any DWDM channel)
Laser Type	Temperature controlled DFB laser
Relative Intensity Noise (RIN)	< -155 dB√Hz
Optical Output Power	>2,5 dBm (per port, including 8-port splitter loss)
Optical Output Power	>-4,5 dBm (per node if additional external or internal 4-way splitter is used)
RF Ports Impedance	75 Ω
RF Connector	F-type, female
Frequency Range	85...1218 MHz
RF Return Loss	>18 dB (-1.5 dB/oct., min. 14 dB)
RF Input Level	70 dBµV (PAL-Level)
Input Attenuator	0...15 dB
Gain Control Range	-5...+5 dB (ALC)
Input Cable Simulator	0 / 5 / 10 dB (switchable)
Input Testpoint (Internal)	-20 dB
Output Testpoint (Internal)	Laser OMI (70 dBµV @ 2.6% OMI)
Signal Quality (all QAM) 121 QAM CH	
MER	>40 dB (Values given for 2.6% OMI, 20 km fiber, optical Rx power-1.0 dBm)
BER	<1 x 10-9 (Values given for 2.6% OMI, 20 km fiber, optical Rx power-1.0 dBm)
General data	
Supply Voltage	230 V AC / 27...65 V AC
Power Consumption Max.	<20 W
Operating Temperature Range	-20...+55 °C
EMC	EN 50083-2
Dimensions (W x H x D)	260 x 215 x 101 mm
Monitoring	
Upstream	
Attenuator	0...40 dB (0,5 dB steps)
Slope	0...8 dB (0,5 dB steps)
Port 1...4/1...8	On/Off
Port 1...4/1...8 Optical Receiver Power	dBm
Downstream	
Optical Output Power	dBm
Laser Temperature	°C
RF Level	dB