

WISI LR 95 x XXXX

Mini Line Node for HFC applications

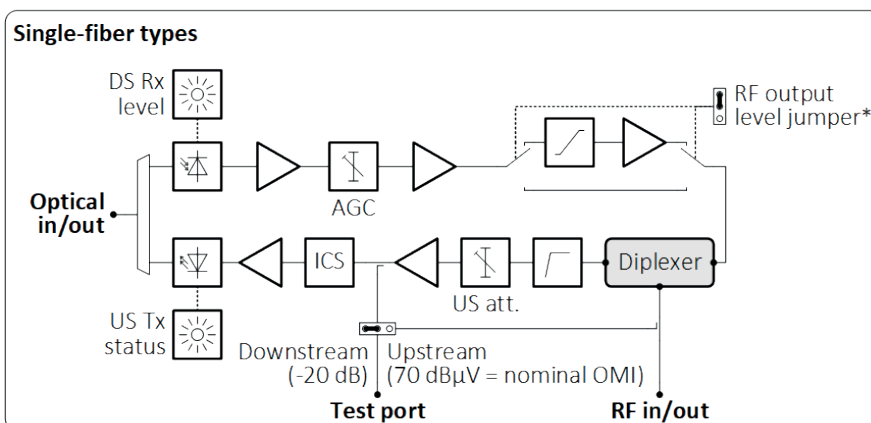
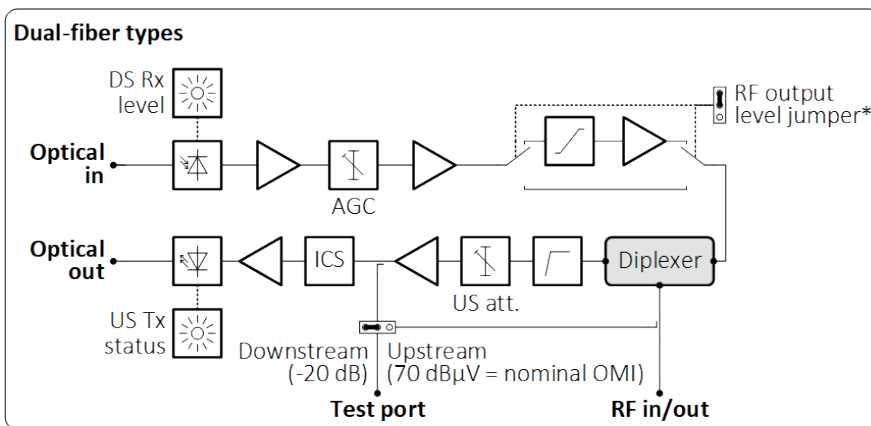


At a glance:

- DOCSIS-3.1-compliant frequency range:
Downstream up to 1218 MHz,
Upstream up to 204 MHz
- Pluggable diplexers enable migration towards DOCSIS 3.1 upstream
- Compact housing for indoor deployment (IP20)
- Optical ALC for regulated output levels
- Optional Remote Management (FSK)

Description

The LR 95 series of fiber nodes is optimized for HFC applications. They are operated in CW (continuous wave) mode and are available in single- or dual- fiber versions. The pluggable Diplexers allow the easy migration towards DOCSIS 3.1 networks.



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Technical data	
Downstream	
Wavelength (dual fiber)	1270...1610 nm
Wavelength (single fiber)	1540...1560 nm
Output level L/H (4% OMI)	80 dB μ V (flat)/ 97 dB μ V (5 dB slope)
Signal Quality (all QAM) 121 QAM CH	MER >41 dB, BER < 1e-9 (measured @ 2,5% OMI, 35 km fiber, -3 dBm @ receiver input)
Optical input power	-6...+2 dBm
Frequency range	85...1218 MHz (depending on diplexer)
Return loss	\geq 18 dB (-1dB/Octave, min. 14 dB)
Frequency Response (O-E)	\pm 0,75 dB
Equivalent input noise density	<4 pA/ \sqrt Hz
Test point	-20 dB
Upstream	
Optical output power	3 dBm (\pm 0,5 dB)
Wavelength	1270...1610 nm (according Order Code)
Frequency range	12...204 MHz (depending on diplexer)
Return loss	\geq 18 dB (-1dB/Octave, min. 14 dB)
Frequency Response (O-E)	\pm 0,75 dB
Attenuator range	0...30 (2 dB-steps)
RF input level	70...100 dB μ V
Upstream test point	70 dB μ V (OMI 5%)
Connectors	
SC/APC connectors	1 pcs. (Downstream input & upstream output)
F-connectors	2 pcs. (RF in-/output, test port)
General data	
Optical return loss	>40 dB
Supply voltage	230 V AC
Power consumption	<6 W
Dimensions (width x height x depth)	163 x 90 x 47 mm
Ambient temperature	-10...+50 °C
Protection class	IP 20
EMC	EN 50083-2
Impedance	75 Ω
Monitoring	
Optical RX Level LED colour	red: < -6 dBm / > +2 dBm; green: -6 dBm ...+2 dBm
TX activity LED	static: laser on

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Options:

1 – default (w/o VT21)

Diplexer:

1 – default (without)
2 – XE50B0650 - 65/85
3 – XE50B0850 - 85/105
4 – XE50B1170 - 117/149
5 – XE50B2040 - 204/258

Upstream Wavelength:

1 – 1270 nm single fiber
2 – 1290 nm single fiber
3 – 1310 nm single fiber
4 – 1330 nm single fiber
5 – 1350 nm single fiber
6 – 1370 nm single fiber
7 – 1390 nm single fiber
8 – 1410 nm single fiber
9 – 1430 nm single fiber
A – 1450 nm single fiber
B – 1470 nm single fiber
C – 1490 nm single fiber
D – 1510 nm single fiber
E – 1530 nm single fiber (only on request)
F – 1570 nm single fiber (only on request)
G – 1590 nm single fiber
H – 1610 nm single fiber

I – 1310 nm dual fiber
J – 1410 nm dual fiber
K – 1430 nm dual fiber
L – 1450 nm dual fiber
M – 1470 nm dual fiber
N – 1490 nm dual fiber
O – 1510 nm dual fiber
P – 1530 nm dual fiber
Q – 1550 nm dual fiber
R – 1570 nm dual fiber
S – 1590 nm dual fiber
T – 1610 nm dual fiber

Power Supply:

2 – local powered 230V AC EU
3 – local powered 230V AC UK

Output Power Level:

_ – default (switchable L/H SC/APC)
L – low output power (SC/APC)
H – high output power (SC/APC)