

Specifications

Downstream incl. receiver module

Wavelength	1290-1600 nm
Opt. return loss	> 40 dB
Fiber	single mode 9/125 μm
Optical connector	E2000/APC (other on request)
Output impedance	75 Ohm
Output return loss	≥ 20 dB (-1.5 dB / oct.)
Frequency range (determined by diplex filter)	47/85- 862 MHz
Opt. input level for controlled electrical output level	-5 to +3 dBm
Controlled output level range	
Out1 OMI=5% per channel	87 - 102 dBμV
Out 2,3 OMI=5% per channel	99 - 114 dBμV
Step size	0.1 dB
Equalizer range (adjustable), each output	0 - 15 dB
Step size	0.1 dB
Amplitude response (O-E)	< ± 0.75 dB
Equivalent noise input	< 6 pA /√Hz
Distortion products for CENELEC 42 Ch.	
Out2, Out3	114 dBμV, 6 dB slope
CSO	> 60 dB
CTB	> 60 dB
Out1	100 dBμV, 6 dB slope
CSO	> 66 dB
CTB	> 68 dB
RF test points	-20 dB

Upstream incl. transmitter module

Wavelength	LT 40 FP laser	
	LT 41	1310±20 nm
	LT 45/1510	1510±3 nm
	LT 45/1530	1530±3 nm
	LT 45/1550	1550±3 nm
	LT 45/1570	1570±3 nm
Opt. output power		3 dBm
Frequency range		10 - (30)65 MHz*
Broadband RF-Input	10 - 300 MHz (106 dBμV = 5% OMI)	
Input return loss		≥ 20 dB (-1,5 dB / oct.)
RIN		< -145 dB/Hz
Nominal input level		75 dBμV
OMI control range		3 – 10% @ 75 dBμV input
Step size		1 dB
Frequency response		± 0.5 dB
Ingress control switch att. ICS 1,2,3		0 / 8 / >45 dB
RF test points upstream input		-20 dB
RF test points laser in		-20 dB
Reference pilot		10 dB below 5% OMI
Reference pilot frequencies		
LT 41/1310 - 6.4 MHz;	LT 45/1510 - 6.6 MHz;	
LT 45/1530 - 6.8 MHz;	LT 45/1550 - 7.0 MHz;	
LT 45/1570 - 7.2 MHz		

General specifications

RF connectors		PG11
Supply voltage	LR 43	180-265 VAC
	LR 63	27-65 VAC
Power consumption	typ. incl. 1 x LR 40, LT 41	<45 W
	max.	53 W
Remote power feed		< 8 A

Ambient temperature	-20°... +50°C
EMC	EN 50083-2
Protection class	IP 66
Dimensions	288 x 125 x 302 mm

Downstream

Monitoring:

- opt. input level
- attenuator setting
- equalizer out 1,2,3 setting
- redundancy switch position
- receiver configuration
- pilot level

Configuration:

- attenuation out 1, 2, 3
- equalizer out 1, 2, 3
- redundancy mode
- redundancy switch position
- AGC control
- alarm / warning thresholds

Upstream

Monitoring:

- opt. output level
- temperature
- transmitter configuration
- redundancy / clustering switch position
- ICS position
- reference pilot frequency

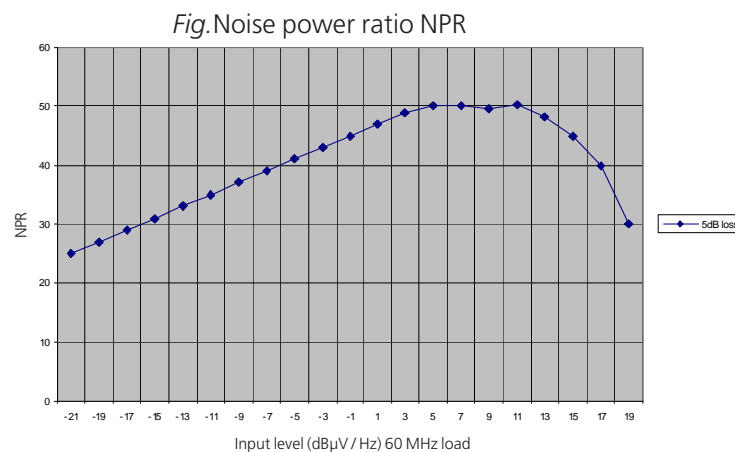
Configuration:

- laser
- OMI
- ICS1, ICS2, ICS3
- redundancy / clustering switch position
- alarm / warning thresholds

Alarms / Warnings:

- optical input power too high / too low
- optical transmitting power too high / too low
- temperature too high / too low
- AGC range limit
- pilot level too high / too low

All alarm / warning thresholds are variable



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PRODUCT INFORMATION



WISI FIBER LINE

LR 43 local feed Redundant Optical Node LR 63 remote feed

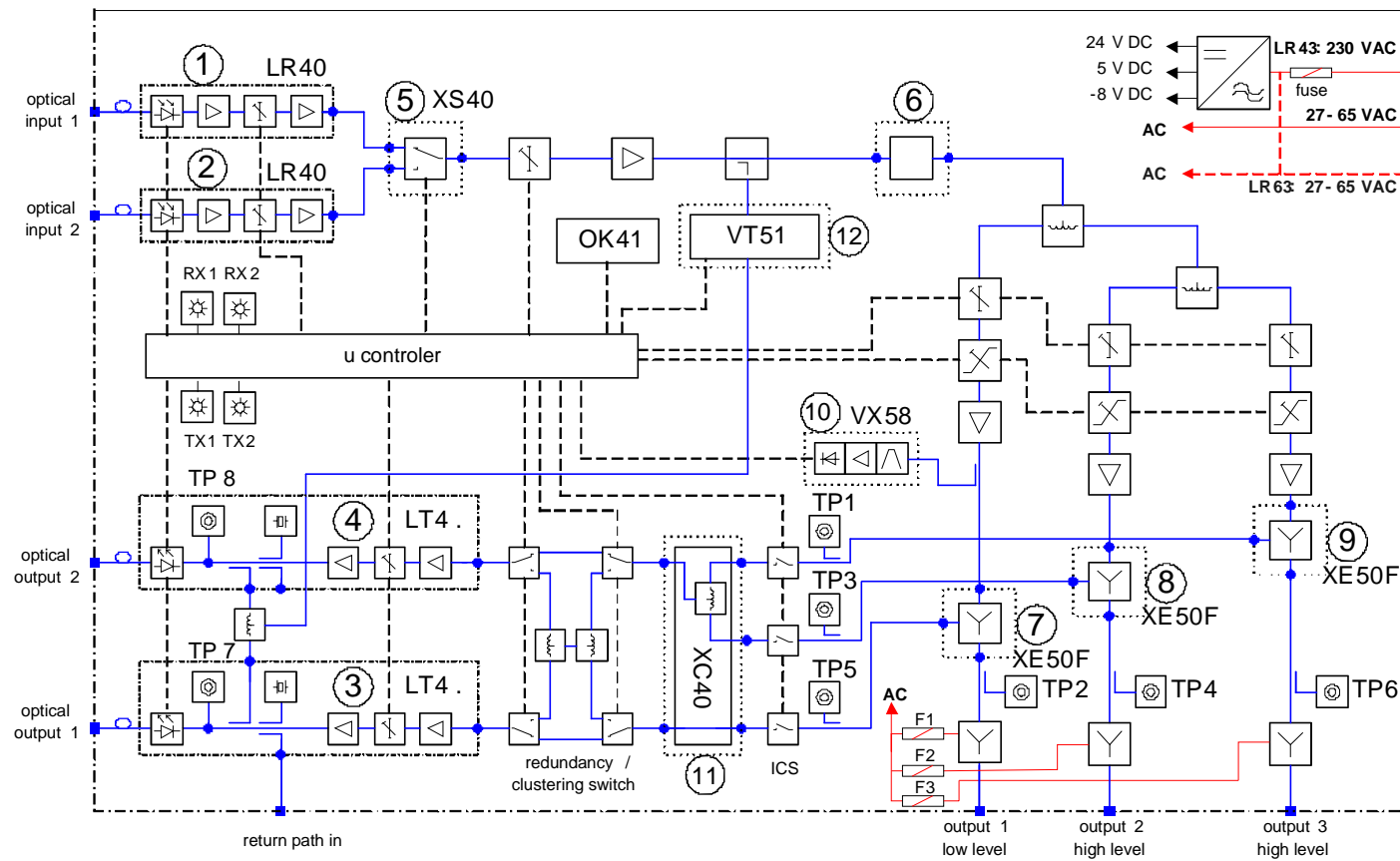
- Redundant Node with three active outputs
- Integrated splice box
- Plug-in optical transmitter and receiver modules (2 each)
- All settings (level, slope etc.) by WISI OK41A handset or NMS if a HMS transponder is used
- Alignment without signal interruption
- Interface for NMS functionality
- Electronic upstream configuration redundancy / clustering
- ICS switch for each input
- Automatic level control (ALSC) via optical input power or pilot controlled VX 58



... a link to the future



Block diagram

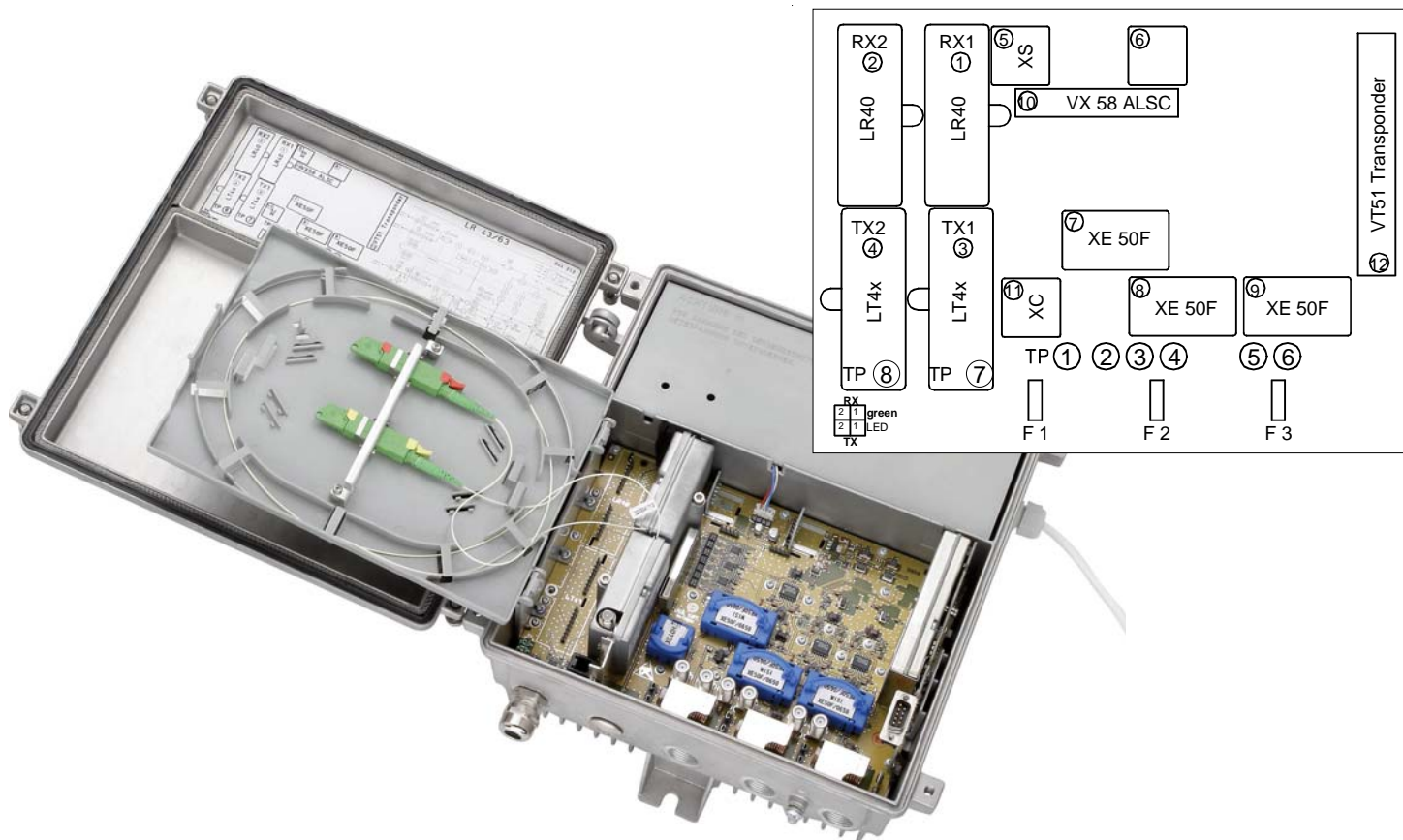


Accessories

Ordering information

Slot No.	Type	LR 43 / LR 63 factory config.	Accessories Options
(1)	LR 40 opt. Rx	X	—
(2)	LR 40 opt. Rx	—	X
(3)	LT 40 FP laser or LT 41 1310 nm opt. Tx or LT 45 1510 nm opt. Tx	—	X
(4)	LT 40 FP laser or LT 41 1310 nm opt. Tx or LT 45 1510 nm opt. Tx	—	X
(5)	XS 40 switch	Jumper	X
(6)	Universal plug-in	Jumper	X
(7)	XE 50F diplexer	—	X
(8)	XE 50F diplexer	—	X
(9)	XE 50F diplexer	—	X
(10)	VX 58 ALSC mod.	—	X
(11)	XC 40 config. modul	—	X
(12)	VT 51 transponder	—	X

Site plan



Accessory

OK41 / 41A handset

Note:

If LR 40 (2) is ordered, also one XS 40 (5) is required.
If LT 4... (3) / (4) is ordered, also one XC 40 (11) is required.

Attention: XE 50F is not compatible with XE 50!!