

Multi-diode Receiver

LX 24 S 3200

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The LR 24 is a multi-diode upstream receiver for RFoG applications that solves OBI (Optical Beat Interference) issue immediately.

It can be operated in existing RFoG networks to avoid OBI and to support existing fiber node installations.

Highlights

- OBI FREE SOLUTION FOR RFOG NETWORKS
- WORKS IN EXISTING NETWORKS WITH ANY INSTALLED FIBER NODE
- REMOTE MANAGEMENT FOR POWER LEVEL READINGS AND SUBSCRIBER/PORT DE-/ACTIVATION



Features

- MANAGEMENT VIA WEB AND SNMP
- LOCAL OR REMOTE POWERED WITH PLUGGABLE POWER SUPPLY
- SAME LEVEL TEST POINT

Technical Information

Electrical Parameters

Output Impedance	75 Ohm
Connector Type	F female
Frequency Range	5 (15) – 204 MHz
Output Level (15 % OMI/CH)	70-85 dB μ V
Ripple	$\leq \pm 0,5$ dB
Output Level Control	0-40 dB (0,5 dB step)
Slope Control	0-8 dB (0,5 dB step)
Test Point	0 dB
Return Loss	> 20 dB (-1dB/Okt) min 16 dB
Equivalent Noise Density	max. 7 pA/SqrtHz

Optical Parameters

Interface Type	SC/APC
Optical Return Loss	> 45 dB
Optical Input Level (US)	+0 to -11 dBm dB
Wavelength Range	1270 - 1625 nm
Insertion Loss Downstream (COM -> Out_FN)	typ. 18 dB
Insertion Loss Upstream (Out_FN -> PD_US)	< 8 dB
Isolation (COM -> PD_US)	> 60 dB

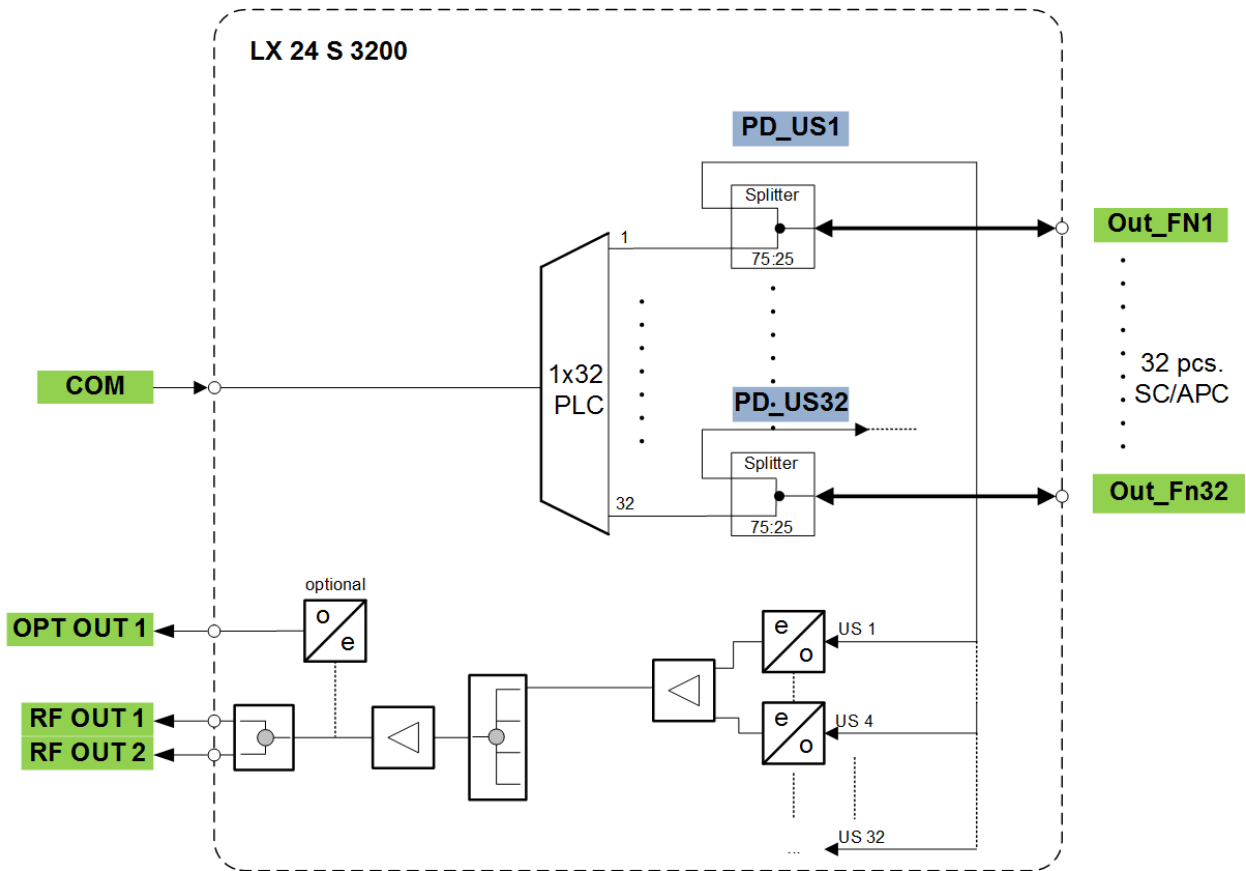
Generic Data

Power Supply	230 V AC / 27-65 V AC
Power Consumption	< 10 W
Environmental Temperature Range	-20° ... +55° C
EMC	EN50083-2
Dimensions (W x H x D)	425 (19") x 43 (1RU) x 250 mm

Monitoring (Controls & Measurements)

Attenuator	0-40 dB (0,5 dB step)
Slope	0-8 dB (0,5 dB step)
Port 1-32 Upstream	on/off
Port 1-32 Upstream opt. receive power	dBm
Optical Output with OMI control	3-8 %

Block diagramm



Ordering Information

LR 24 XXXX

Upstream Wavelength:

00 – electrical upstream

27 – 1270 nm

29 – 1290 nm

31 – 1310 nm

33 – 1330 nm

35 – 1350 nm

37 – 1370 nm

39 – 1390 nm

41 – 1410 nm

43 – 1430 nm

45 – 1450 nm

47 – 1470 nm

49 – 1490 nm

51 – 1510 nm

53 – 1530 nm

55 – 1550 nm

57 – 1570 nm

59 – 1590 nm

61 – 1610 nm

Upstream Ports:

32 – 32 Ports

16 – 16 Ports

08 – 8 Ports



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