

Optical node

MON-1629LN (Low Noise)



RoHS



- Dedicated to FTTB and RFoG networks
- Low-noise receiver
- High output RF level
- Frequency range 1GHz
- Easy uninterrupted adjustment
- Built-in AGC
- Local / remote powering
- Power transfer

MON-1629LN – is a compact optical node with high RF output level. It can be implemented in **FTTB** and **RFoG** applications.

MON-1629LN allows uninterrupted transmission in both – forward and reverse paths due to use of unique **AUTO-LINK** system in RF line during plug-in modules change. For the time of plug-in change, 5dB parallel circuit is automatically enabled. When plug-in module is placed, parallel circuit is disabled automatically. Switching time is app. 500ns.

MON-1629LN is equipped with laser action enabling mechanism - **BURST MODE**. Return path optical transmitter is enabled when modem transmission is detected. Transmitter turns ON when signal level reaches 72 dBμV (level can be adjusted) on input port of optical node. Due to such mechanism, operator may – via optical splitter – connect several optical nodes, depending on network topology and transmit signal to Return Path Receiver in Head End. This solution reduces noise level in return Path.

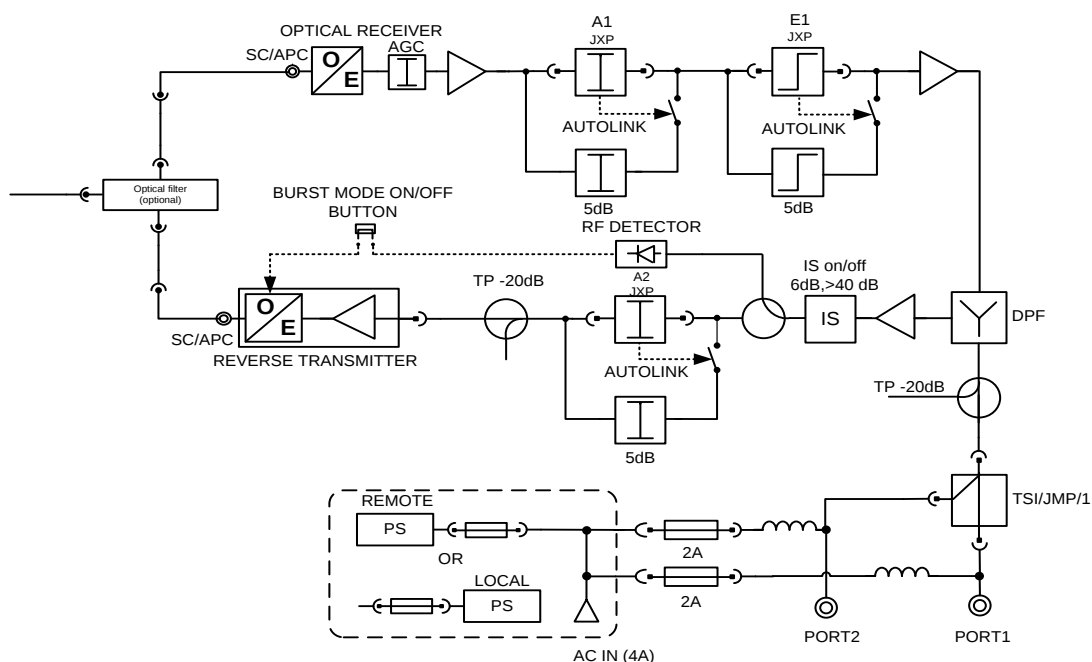
MON-1629LN is a modern optical node that meets expectations resulting from conditions at the last mile of a fibre. It allows flexible network configuration basing on topology and business requirements. Basing on standard configuration modules it is easy to configure and allow maintenance costs reduction.

TECHNICAL PARAMETERS

PARAMETERS			MON-1629LN		
OPTICAL PARAMETERS			RETURN PATH		
Input optical power range	dBm	-9...+2	Frequency range	MHz	5...65, 85
AGC range	dBm	-6...0	Gain	dB	30 ±0,75
Return loss	dB	>45	Return loss	dB	≥18@40MHz -1,5dB/oct.
Optical input wavelength	nm	87,110...1650			
Equivalent input noise current	pA/√Hz	≤7	Gain characteristic flatness	dB	±1
Optical connector	/	SC/APC	Attenuator A3	dB	JXP plug-in: 0...20
FORWARD PATH			Test point	dB	20 ±1
Frequency range	MHz	87, 110...1002	Transmitters	1310FP 0dBm 1310/1550 DFB 3dBm CWDM DFB 3dBm	
Gain characteristic flatness	dB	±0,75			
Maximum output level (CENELEC 42) 1310nm@ -3dBm E1=6 dB, 4% OMI, AGC ON, CTB ≤ 60dBc CSO ≤ 60dBc	dBμV	114	OTHER		
			Power supply	local: MON-1629LN remote: MON-1629LNZ	VAC/Hz 180...253 / 50-60 24...65 / 50-60
Interstage attenuator A1	dB	JXP plug-in: 0...15, step 1	Power consumption	W	>17 1)
			Connector	/	PG11, 5/8"
Interstage equalizer E1	dB	JXP plug-in: 0...15, step1	Protection class	/	IP52
			Operating temperature	°C	-20...+55
Test point	dB	-20 ±1	Weight	kg	1,3
Return loss @ RF output	dB	18 (40 MHz) -1,5 dB/oct	Dimensions	mm	235x145x80
			Package	/	box

1) – with OTBM return path transmitter

BLOCK DIAGRAM



Technical parameters may be changed without earlier notice.

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