MON-1629LN (Low Noise)

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 75dB/uV 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 meeting requirements of last fiber mile race. It allows flexible network configuration basing on topology and business requirements. Basing on standard configuration modules it is easy to configure and reduces maintenance costs.

- Lon-noise receiver
- Dedicated for FTTB and RFoG networks
- High output RF level
- Frequency range 1GHz
- Easy uninterrupted adjustment
- Built-in AGC
- Local/remote powering
- Compatible with SCTE 174 Standard

CoreTel s.r.o.
K Cintorínu 64
010 04 Žilina
Slovenská republika

IČO: 47 744 731
IČ DPH: SK2024077726

Fio banka a.s. č.ú.:
EUR: 2500577171/8330
CZK: 2100577172/2010
USD: 2400577174/8330

Tel. č.: +421 948 87 55 87
Tel. č.: +421 948 86 55 86
Email: coretel@coretel.eu
Web: www.coretel.eu

Technical parameters

Optical parameters		
Input optical power range	dBm	-9..+2
AGC range	dBm	-6..0
Return loss	dB	>40
Optical input wavelength	nm	1100..1650
Equivalent input noise current	pA/√Hz	<7
Optical connector	/	SC/APC

Forward path		
Frequency range	MHz	87...1002 110...1002
Gain characteristic flatness	dB	±0,75
Maximum output level (CENELEC 42) 1310nm@ -3dBm E1=6 dB, 4% OMI, AGC ON, CTB ≤ 60dBc CSO ≤ 60dBc	dBuV	114
Interstage attenuator A1	dB	0..15
Interstage equalizer E1	dB	0..15
Test point	dB	-20 ±1
Return loss @ RF output	dB	18 (40MHz) -1,5dB/oct

Return path		
Frequency range	MHz	5...65 5...85
Gain	dB	30 ±0,75
Return loss	dB	18@40Mhz- 1,5dB/oct
Gain characteristic flatness	dB	±0,75
Attenuator A3	dB	0..20
Test point	dB	20 ±1
IS (Ingress Switch)	dB	0/-6/-40
Transmitters	1310FP 0dBm 1310 DFB 3dBm, 1550DFB 3dBm, CWDM DFB 3dBm	

Other		
Local Powering Remote Powering	V/Hz	180...253/ 50-60 24...65/50-60
Power consumption	W	<17*
Output connector		PG11, 5/8"
IP class	IP	64
Working temperature range	°C	-20..60
Weight	kg	1,3
Dimensions	mm	235x145x80

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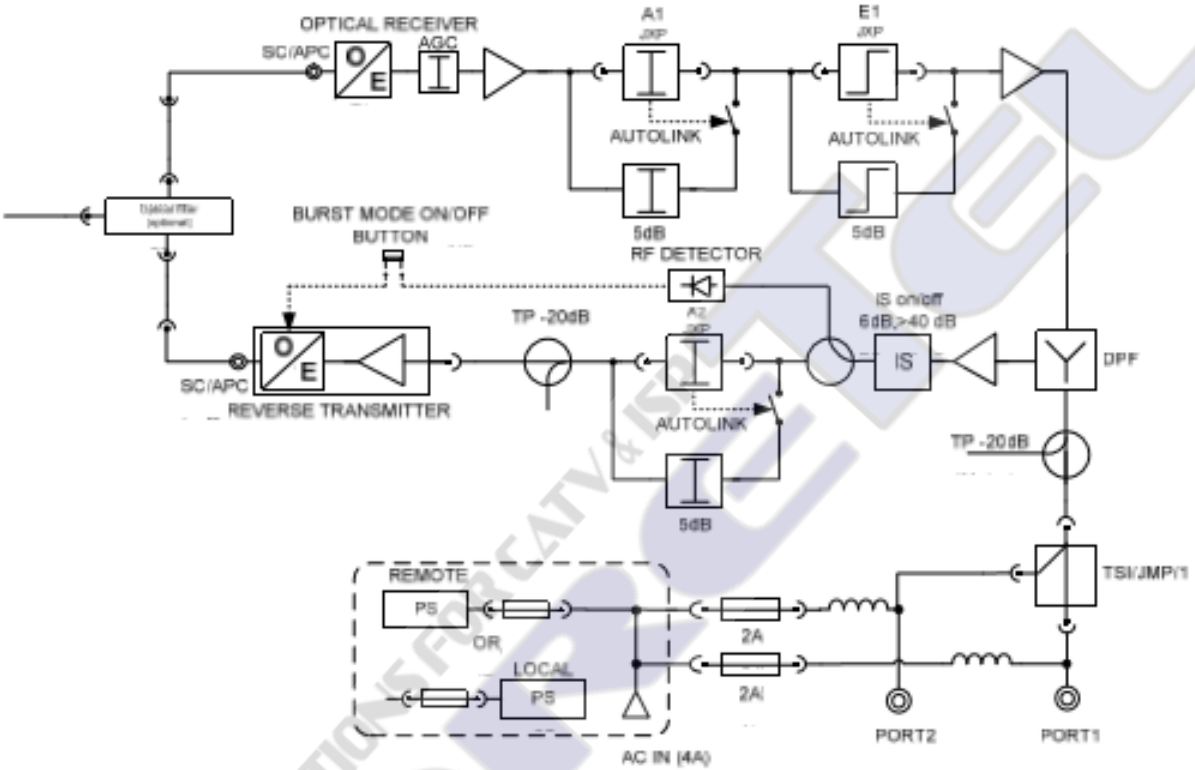
Block diagram



RF plugins

JMP/1 – jumper – supports one RF output

TSI – tap – supports two RF outputs

STI-3,5M – splitter – supports two RF outputs

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