

MON-1931, DOCSIS 3.1



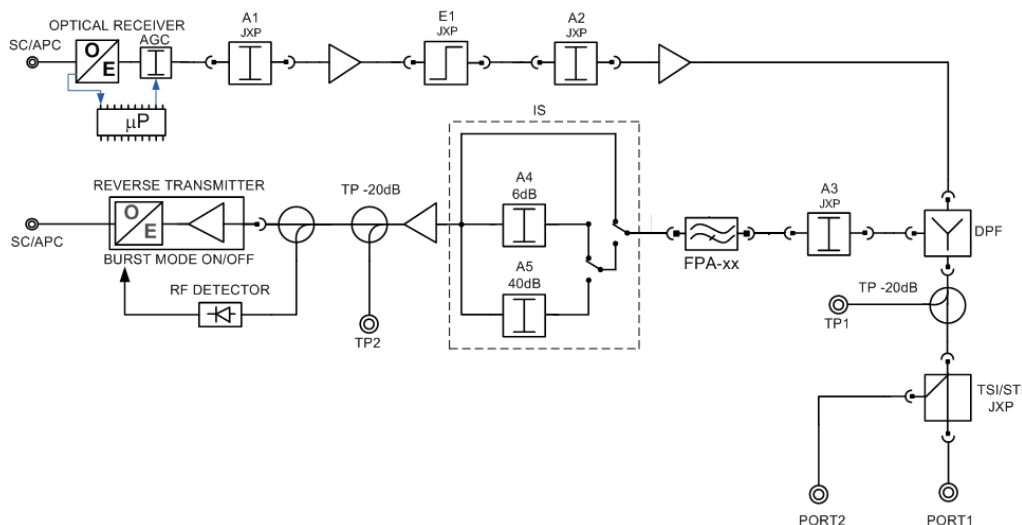
- Dedicated to FTTB and RFoG networks
- High output RF level
- Frequency range 1.2GHz
- Perfect bandwidth
- Built-in AGC (Automatic Gain Control)
- Local and remote powering (exchangeable power supply)
- Compatible with SCTE 174 Standard

MON-1931 is a compact optical node that features high RF output level; it has been widely applied in **FTTB** and **RFoG** networks. Node is designed for DOCSIS 3.1 transmission. Broadcast channel band is 1218MHz. Replaceable DPF filter enables adjustment of return path bandwidth.

MON-1931 is equipped with **BURST MODE** to commence laser action. Return path optical transmitter is activated upon detection of modem transmission. The transmitter activation level is 72dB μ V on the optical node input port. Due to application of such mechanism, user can connect several nodes through the optical splitter – according to the network topology – and transmit a signal with single fibre to a single return path optical receiver located in the head end. This function supports also lowering the noise floor that is received by that receiver.

MON-1931 is a modern optical node that meets expectations resulting from conditions at the last mile of a fibre. Its construction, which is based on standard control components, ensures simple servicing and cost optimisation.

BLOCK DIAGRAM



TECHNICAL PARAMETERS

PARAMETERS		MON-1931	
OPTICAL PARAMETER			
Input optical power range ¹⁾	dBm	-9...+3	
AGC range	dBm	-6...0	
Optical input wavelength	nm	1100...1650	
Equivalent input noise current	pA/√Hz	<6	
Optical connector	/	SC/APC	
FORWARD PATH			
Frequency range	MHz	85/102/110/256...1218	
Output level ²⁾	dBμV	116	
Gain characteristic flatness	dB	<±1	
Interstage attenuator A1	dB	JXP plug-in: 0...20, step1	
Interstage equalizer E1	dB	JXP plug-in: 0...20, step1	
Interstage attenuator A2	dB	JXP plug-in: 0...20, step1	
Test point	dB	-20±1	
Return loss@RF output ³⁾	dB	18	
RETURN PATH			
Frequency range	MHz	5...65/85/204	
Gain	dB	20	
Return loss ³⁾	dB	18	
Gain characteristic flatness	dB	±1	
Attenuator A3	dB	JXP plug-in: 0...20, step1	
Equalizer E1	dB	JXP plug-in: 0...20, step1	
Test point	dB	-10	
OTBM Transmitters	/	1310FP 0dBm 1310/1550 DFB 3dBm CWDM DFB 3dBm	
OTHER			
Power supply	local: (MON-1925)	V _{AC} / Hz	180...253 / 50-60
	Remote: (MON-1925Z)	V _{AC} / Hz	24...65 / 50-60
Power consumption ⁴⁾	W	<23	
Output connector	/	5/8"	
Protection class	IP	65	
Working temperature range	°C	-20...+65	
Weight	kg	1,6	
Dimensions	mm	223x151x98	
Package	/	box	

- 1) AGC range -6 ... 0dBm
- 2) 42 analog channels (CENELEC), CTB<-60 dBc and CSO<-60 dBc, 1310nm@ -4dBm, 3% OMI, AGC ON, 0dB slope
- 3) 18 dB for f≤40MHz, 18 dB-1,5dB/oct. for f>40MHz
- 4) Without return path transmitter

Technical parameters may be changed without earlier notice.

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