

Optical Node

MON 210 1F/2F



MON 210 is a modern two-way optical node dedicated to applications in HFC networks.

Node is equipped with automatic gain control (AGC). It responds to the optical power that is provided to the receiver input and accordingly adjusts amplification to keep the constant, pre-set output signal level.

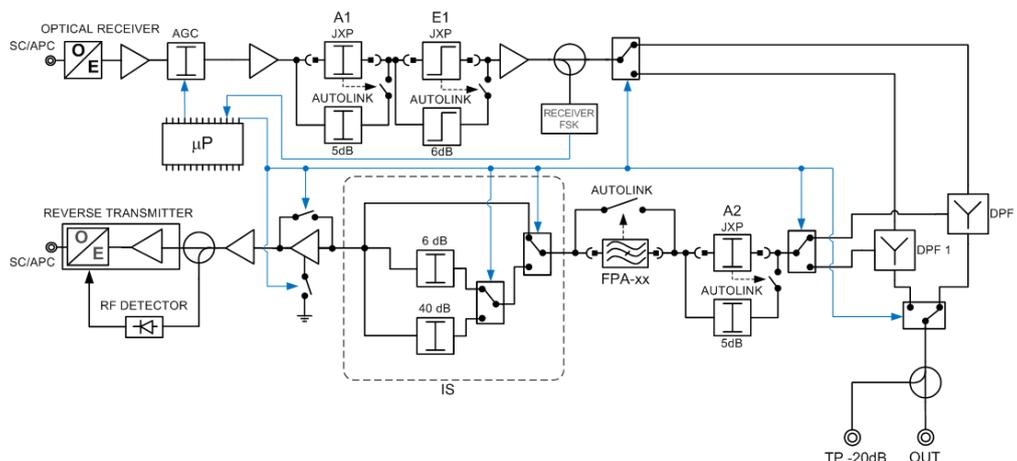
With added DUAL DF technology (two build in diplex filters) Your network is secured for future development and upgrades.

This device meets all the standards related to RFoG technology, and it can be applied in PON networks thank to range of high quality lasers.

The devices includes various DS and US bandwidths, various bandwidths in the return path are also available.

We've prepared two versions of this device, one with exchangeable transmitter and another with integrated transceiver.

- Complex DOCSIS 3.1 solution
- Remote control and ingress protection
- RF output level **112dBμV** (CENELEC 42)
- **Dual DF technology**
- DS band – 54-256..1218MHz
- US band – 5..204MHz
- ECO mode with less power consumption
- Modular return path transmitters – OTBM
- One fiber RFoG versions, based on BOSA lasers
- Low power consumption
- Universal solution for modern networks
- One fiber version (optional)



TECHNICAL PARAMETERS

PARAMETERS		MON-210-2F	MON-210-1F
FORWARD PATH			
Input level range	dBm	-9...+2	
AGC range	dBm	-6...0	
Optical return loss	dB	>40	
Optical input wavelength	nm	1210..1650	1540..1560
Equivalent input noise current	pA/√Hz	<7	
Optical connector	/	SC/APC	
Frequency range	MHz	54,85,102,110,256...1218	
Flatness	dB	±0,75	
Max. output level (CENELEC 42; EQ=0dB)	dBμV	112	
Full digital load (112ch, EQ=9dB)	dBμV	110	
Output test point	dB	-20±1	
Return loss at RF output	dB	18@40MHz-1,5dB/ oct.	
RETURN PATH			
Frequency range	MHz	5...45,65,85,204	
Flatness	dB	±0,75	
Laser transmitter type	/	OTBM (plugin)	BOSA (fixed)
OTHERS			
Power supply	V _{DC} / Hz	180...253/ 50-60	
		25...65/ 50-60	
Power consumption	W	<15W	
Minimum signal level for laser switch on (burst mode)	dBμV	75±1	
Connector	/	F (75Ohm)	
Protection class	/	IP65	
Operating temperature	°C	-20...+55	
Weight	kg	1,1	
Dimensions	mm	155x155x75	
Package	/	box	
Optical output wavelength	nm	1270..1610 CWDM	
Optical output power	dBm/mW	3/2	

Technical parameters may be subject to change without prior notice.

www.telmor.pl