

RFoG MICRO NODE - PLUS



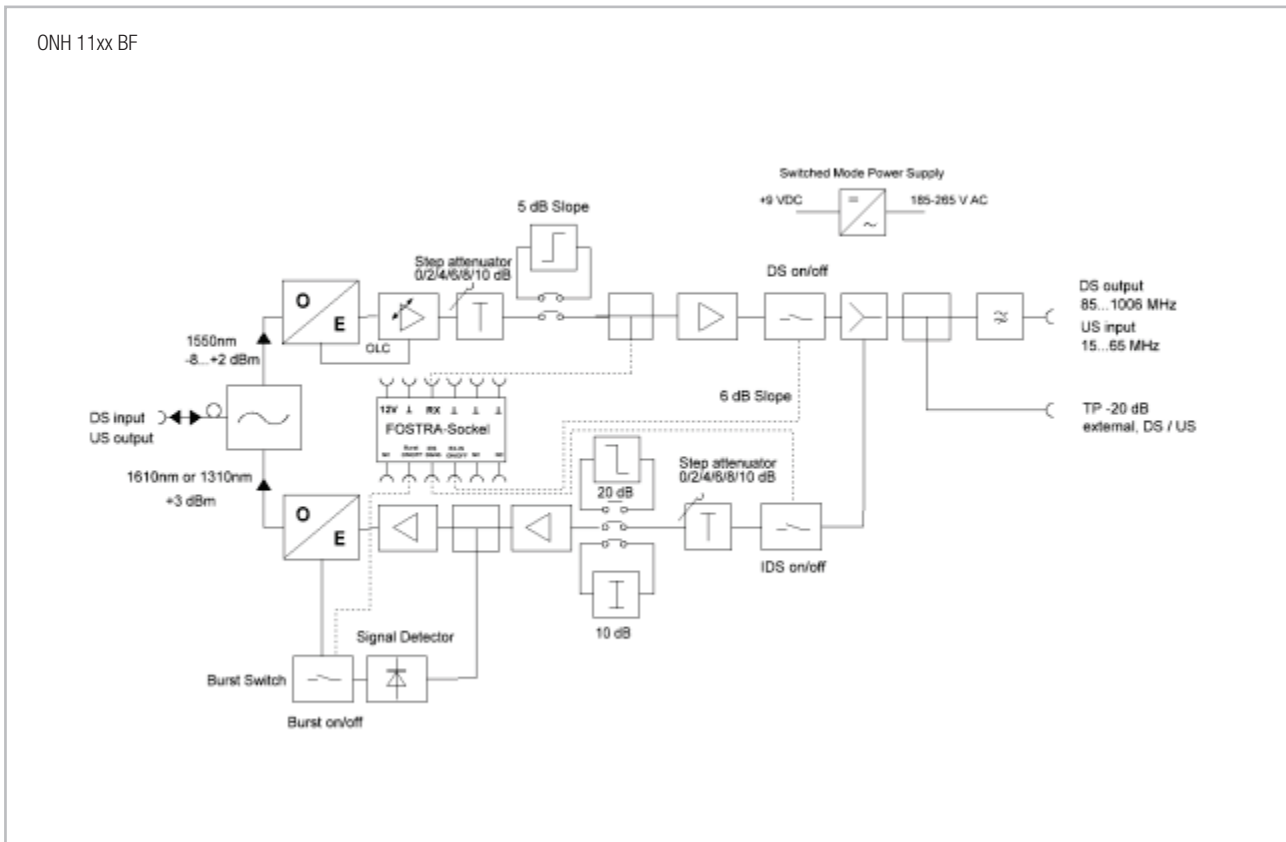
Smart Fiber Node for FTTH/PON- Architectures

Particularly suitable for bidirectional operation in connection with DOCSIS-PON/RF over Glass (RFoG).

- Burst Mode Operation acc. IEC 60728-14 or CW-Operation
- Prepared for **FOSTRA-F** network monitoring system
- Optical AGC function based on optical input power
- Constant RF output level at wide optical input power range
- Interstage Attenuator and Slope - Step spin control
- Display of optical power through LED indicator
- RF test point -20dB
- Low noise DFB laser in Burst- or CW-Mode Operation
- Internal WDM-filter 1550/1610nm for RfoG application
- With **FOSTRA-F**: DS ON/OFF, Burst Mode ON/OFF, IDS 0/6/45 dB



Type	ONH 1000	ONH 1161 BF	ONH 1161 B1F
Article-No.	5700 1708	5700 2112	5700 1957
Description	Optical Micro-Receiver, 1290...1620nm, 40-1006 MHz, 92 dBµV RF-output level (without FOSTRA)	Optical Micro-Node, 1550nm/1610nm, 15-65/85-1006 MHz, 92 dBµV RF-output level	Optical Micro-Node, 1550nm/1610nm, 15-65/85-1006 MHz, 99 dBµV RF-output level



Type		ONH 1161 BF	ONH 1161 B1F	
Applications		HFC, FTTH, FTTB, DOCSIS-PON/RFoG		
Compact die-cast housing		188 x 85 x 50 / IP 20, In-door		
Weight	kg	0,8		
Fiber connectors		SC/APC		
RF connectors		F-female		
Mains feeding	V~/W	185...265 / < 8		
Operation temperature	°C	-20...+55		
Adjustment elements		Step Spin Attenuator and Jumper		
Internal WDM (Tx / Rx)	nm	1550 / 1610 (Tx. 1310 or 1590nm on request)		
Downstream	Optical wavelength	1550 ± 10		
	Optical input power	-8...+2, max. +2 dBm optical input power		
	Frequency range	15-65/85...1006		
	Frequency response	± 0,7		
	Optical level control (OLC)	-7...+1 (RF-output level ± 1 dB)		
	RF output level	92 ± 1 @ -7...+1 dBm, OMI = 4 %, CTB,CSO > 60 dBc	99 ± 1 @ -7...+1 dBm, OMI = 4 %, CTB,CSO > 60 dBc	
	C/N	50 dBc @ -3 dBm, OMI 4%		
	RF level attenuator	0 / 2 / 4 / 6 / 8 / 10 (Step Spin Attenuator)		
	RF slope	0 / 5 (Switchable by jumper)		
	Test point RF output	-20 (F-female, external, bidirectional)		
	Monitoring optical input	Green LED on: input > -8		
	Test point optical input	1 (Inside housing)		
	Upstream	DFB Laser / optical power	1610 / +3 (With isolator)	
		Laser operation	Burst Mode Operation (acc. IEC 60728-14) or CW-Mode Operation	
RF input dynamic range		70...110 ("Laser ON"@ Min. input RF-Level 70 dBμV, 0dB attn.)		
Frequency range		15...65		
RF input level		OMI 15% @ 80 (Attn. = 4 dB)		
RF input level attenuator		0 / 2 / 4 / 6 / 8 / 10 (Step Attenuator 2 dB steps), 0 / 10 / 20 dB Jumper Att.		
Ingress Detection Switch		IDS 0 / 6 / 45		
Monitoring optical output	Green LED on: Laser „ON"			