

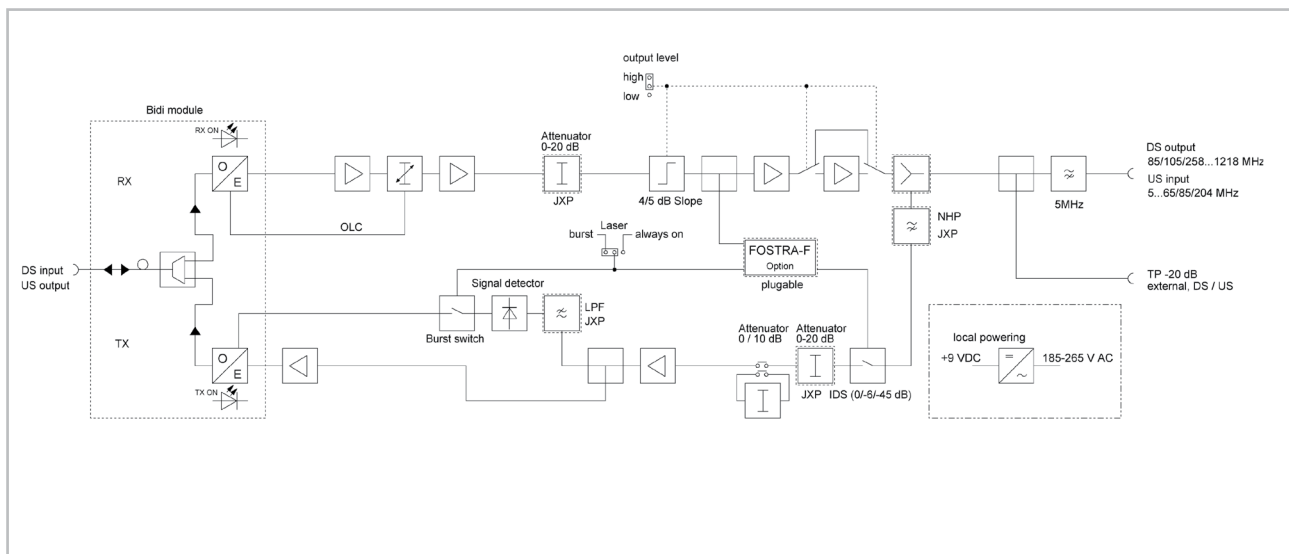
RFoG MICRO NODE

Micronode for RFoG networks, FTTH/FTTB applications

- || Extremely low noise optical receiver
- || Constant RF output level at wide optical input power range
- || OLC function based on optical input power
- || Interstage attenuator and slope
- || Optical input power indicator and monitoring LED's
- || RF input and output test point
- || Ultra Low noise DFB- laser with isolator in burst mode operation
- || Internal WDM filter US/DS wavelength for RFoG applications
- || Upstream available from 1270nm to 1610nm at CWDM grid to avoid OBI
- || Remote controllable in DS & US due to FOSTRA-F receiver module



Type	ONH 1200	ONH 12xx BSF-xx / Self- installation Node	ONH 12xx BF-xx	ONH 12xx B1F-xx
Description	Optical Micro-Receiver, 1550nm, 40-1218 MHz, 96 dB μ V RF-Output level (without return path)	DS: 1550nm US: CWDM 80 dB μ V RF-Output level	DS: 1550nm US: CWDM 80/96 dB μ V RF-Output level	DS: 1550nm US: CWDM 99 dB μ V RF-Output level



Type		ONH 12xx BSF-xx	ONH 12xx BF-xx	ONH 12xx B1F-xx	
Applications			FTTH, FTTB, DOCSIS-PON, RfOG		
Compact die-cast housing	mm		153 x 95 x 53 / IP 20, In-door		
Weight	kg		0.7		
Fibre connectors			SC/APC		
RF connectors			F-female		
Mains feeding	V~/W	230 / < 4.6	230 / < 7.3		
Operating temperature	°C		-20...+55, free convection		
Adjustment elements			PAD and Jumper		
Internal WDM (Tx / Rx)	nm		DS / US		
Downstream	Optical wavelength	nm	1540...1565		
	Optical input power	dBm	-8...+1		
	Frequency range	MHz	85...1218		
	Frequency response	dB	± 0.75, max. ± 1		
	Optical level control (OLC)	dBm	-7...+1 (RF-output level ± 1 dB)		
	RF output level	dBµV	80 ± 1	80/96 ± 1 (selectable) @ -7...+1 dBm, OMI = 3.5 %, CTB,CSO > 60 dBc	99 ± 1
	C/N	dBc		50 @ -3 dBm, OMI 4%	
	RF level attenuator	dB		0...20 (PAD, 1 dB steps)	
	RF slope	dB		0 / 4 / 5 (switchable by jumper)	
	Test point RF output	dB		-20 (F-female, external)	
Monitoring optical input	dBm		Green LED on: input -8...+2, flashing when > +2		
Upstream	DFB-laser / optical power	dBm	3		
	Laser operation		Burst Mode (Laser "Delay-Time" ≤ 0,8 µsec) SCTE compliant		
	RF input dynamic range	dBµV	61...91 ("Laser ON"@ Min. input RF-Level 67 dBµV)		
	Frequency range	MHz	5...204		
	OMI per Channel		8% @ 70 dBµV		
RF input level attenuator	dB		0...20 (PAD, 1 dB steps), 0 / 10 dB Jumper Att.		
Monitoring	HEC 1004 Controller		FSK-TX, 868 MHz		
	FOSTRA F Control module		FSK Receiver RX : 868 MHz		

VERSIONS

ONH 12 xx BxF - xx - xx

SDU 1/2 (single dwelling unit)

Frequency range	US-wavelength	Laser operation, monitoring, RF-output level	DS-wavelength	Diplexer (MHz)
12: up to 1218 MHz	27: 1270 nm	B: Burst and Continuous-Mode	15: 1550 nm	65: 565-1 (5-65/85)
	29: 1290 nm			85: 585-1 (5-85/105)
	31: 1310 nm	1: 99 dBμV		20: 5200 (5-204/258)
	33: 1330 nm	_: 96 dBμV		
	35: 1350 nm	S: 80 dBμV		
	37: 1370 nm			
	39: 1390 nm	F: FSK-monitoring prepared		
	41: 1410 nm			
	43: 1430 nm			
	45: 1450 nm			
	47: 1470 nm			
	49: 1490 nm			
	51: 1510 nm			
	53: 1530 nm			
	57: 1570 nm			
	59: 1590 nm			
	61: 1610 nm			

Please use the following item numbers when ordering:

Type	Item No.	Description
ONH 1200	57003016	Optical micro node 96 dBμV, 5-1218 MHz
ONH 1237 BSF-15-20	57003263	1370 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1239 BSF-15-20	57003264	1390 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1241 BSF-15-20	57003214	1410 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1243 BSF-15-20	57003215	1430 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1245 BSF-15-20	57003216	1450 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1247 BSF-15-20	57003217	1470 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1249 BSF-15-20	57003218	1490 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1251 BSF-15-20	57003219	1510 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1253 BSF-15-20	57003220	1530 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1257 BSF-15-20	57003221	1570 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1259 BSF-15-20	57003222	1590 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1261 BSF-15-20	57003105	1610 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1261 BSF-15-65	57003104	1610 in US, 1540-1565 in DS, 230 V~, 85-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1261 BSF-15-85	57003033	1610 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared, 80 dBμV
ONH 1261 BSF-15-65/FOSTRA	57003106	1610 in US, 1540-1565 in DS, 230 V~, 85-1218 MHz, incl. Fostra-F module, 80 dBμV
ONH 1261 BSF-15-85/FOSTRA	57003107	1610 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, incl. Fostra-F module, 80 dBμV
ONH 1261 BSF-15-20/FOSTRA	57003108	1610 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, incl. Fostra-F module, 80 dBμV
ONH 1227 BF-15-85	57002995	1270 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared, 96dBμV
ONH 1229 BF-15-85	57002996	1290 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared, 96dBμV

