

MINI FIBRE NODE

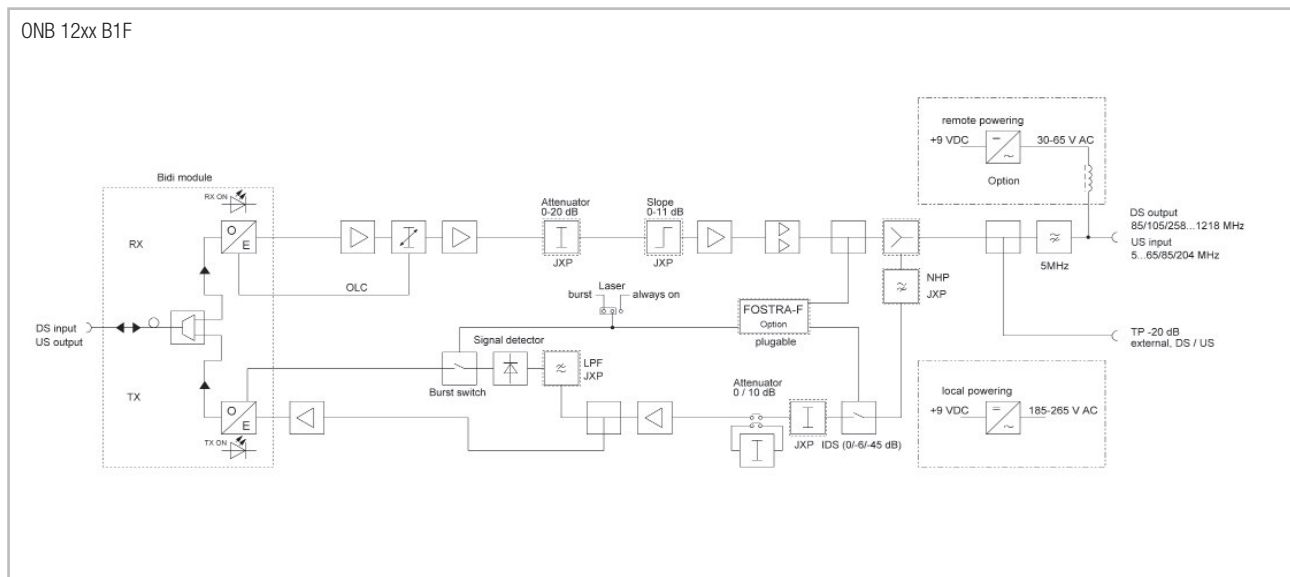
Mini Node for HFC and RFoG networks

FTTH / FTTB- Applications

- Modular concept for one and two fibre solutions
- Constant output level over a wide range of optical input power
- OLC-function based on optical input power
- Low-noise CWDM DFB-Laser with Burst and CW-Mode (SCTE compliant)
- Testpoint and monitoring LED for optical input power
- Upstream with Diplexer RLK565/585 selectable
- RF-testpoints for Upstream and Downstream
- Remote controllable in DS & US due to FOSTR-F receiver module
- Optional remote power
- Available with GPON-Bypass



Type	ONB 1200	ONB 12xx B1F-X
Description	Optical Mini receiver 85...1218 MHz 110 dB μ V RF-output level	DS: 1550nm / 1310nm US: CWDM 85...1218 MHz 110 dB μ V RF-output level



Type		ONB 12xx B1F	
Applications		HFC, FTTC, DOCSIS-PON, RFoG	
Compact die-cast housing		200 x 90 x 55 / IP 50, In-door	
Weight	kg	0.9	
Fiber connectors		SC/APC, 2 pcs (without internal WDM), 1 pcs (with internal WDM)	
RF connectors		F-female	
Mains feeding	V~/W	230 / 10.4	
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...+2
	Frequency range	MHz	85...1218 (modular)
	Frequency response	dB	± 0.75, max. ± 1
	Optical level control (OLC)	dBm	-7...+1 (RF-output level ± 1 dB)
	RF output level	dBμV	110 @ -7...+1 dBm, OMI = 3.5% (CTB, CSO > 60 dBc, 41Ch. flat, PAL, 54 Ch. QAM)
	C/N	dBc	50 @ -3 dBm, OMI 4%
	RF level attenuator	dB	0...11 (PAD)
	RF slope	dB	0...20 (PAD, 1 dB steps)
	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“ < 1 μSec
	RF input dynamic range	dBμV	61...91 („Laser ON“ @ 67 dBμV)
	Frequency range	MHz	15...204
	RF input level	dBμV	70 @ 15% OMI/channel
RF input level attenuator	dB	0...20 (PAD, 1 dB steps), 0 / 10 dB Jumper Attn.	
Monitoring opt. output		Green LED on: output power available	
Monitoring	HEC Controller		FSK-TX, 868 MHz
	FOSTRA F Control module		FSK Receiver RX : 868 MHz

VERSIONS

ONB R 12 xx BF -xx -x -xx

MDU 1/2 (multiple dwelling unit)

Powering (V~)	Frequency range (MHz)	US-wavelength	Laser operation, monitoring	DS-wavelength	Number of Fibres	Diplexer (MHz)		
-: local powering 230 V~	12: up to 1218 MHz	27: 1270 nm	B: burst mode and continuous mode	15: 1550 nm	1: one fiber for US and DS	65: RLK 565-1 (5-65/85)		
R: remote powering 28-65 V~		29: 1290 nm	F: FSK-monitoring				2: one fiber for US and one fiber for DS	85: RLK 585-1 (5-85/105)
		31: 1310 nm	1: RF-output level 110 dBμV					
		33: 1330 nm						
		35: 1350 nm						
		37: 1370 nm						
		39: 1390 nm						
		41: 1410 nm						
		43: 1430 nm						
		45: 1450 nm						
		47: 1470 nm						
		49: 1490 nm						
		51: 1510 nm						
		53: 1530 nm						
		55: 1550 nm						
		57: 1570 nm						
	59: 1590 nm							
	61: 1610 nm							
						20: RLK 5200 (5-204/ 258)		

Please use the following article numbers when ordering:

Type	Article-No.	Remarks
ONB 1200	57003154	Optischer Mini-Node 1260...1620 nm, Vorwärtsweg 5...1218 MHz, -8...+2dBm
ONB 1227 B1F-15-85 RFoG Mininode	57003036	Rx.1545...1560 nm, 110 dBμV Tx.1270nm, US: 15...85 MHz
ONB 1229 B1F-15-85 RFoG Mininode	57003037	Rx.1545...1560 nm, 110 dBμV Tx.1290nm, US: 15...85 MHz
ONB 1231 B1F-15-85 RFoG Mininode	57003038	Rx.1545...1560 nm, 110 dBμV Tx.1310nm, US: 15...85 MHz
ONB 1233 B1F-15-85 RFoG Mininode	57003039	Rx.1545...1560 nm, 110 dBμV Tx.1330nm, US: 15...85 MHz
ONB 1235 B1F-15-85 RFoG Mininode	57003040	Rx.1545...1560 nm, 110 dBμV Tx.1350nm, US: 15...85 MHz
ONB 1237 B1F-15-85 RFoG Mininode	57003041	Rx.1545...1560 nm, 110 dBμV Tx.1370nm, US: 15...85 MHz
ONB 1239 B1F-15-85 RFoG Mininode	57003042	Rx.1545...1560 nm, 110 dBμV Tx.1390nm, US: 15...85 MHz
ONB 1241 B1F-15-85 RFoG Mininode	57003043	Rx.1545...1560 nm, 110 dBμV Tx.1410nm, US: 15...85 MHz
ONB 1243 B1F-15-85 RFoG Mininode	57003044	Rx.1545...1560 nm, 110 dBμV Tx.1430nm, US: 15...85 MHz
ONB 1245 B1F-15-85 RFoG Mininode	57003045	Rx.1545...1560 nm, 110 dBμV Tx.1450nm, US: 15...85 MHz
ONB 1247 B1F-15-85 RFoG Mininode	57003046	Rx.1545...1560 nm, 110 dBμV Tx.1470nm, US: 15...85 MHz
ONB 1249 B1F-15-85 RFoG Mininode	57003047	Rx.1545...1560 nm, 110 dBμV Tx.1490nm, US: 15...85 MHz
ONB 1251 B1F-15-85 RFoG Mininode	57003048	Rx.1545...1560 nm, 110 dBμV Tx.1510nm, US: 15...85 MHz
ONB 1253 B1F-15-85 RFoG Mininode	57003049	Rx.1545...1560 nm, 110 dBμV Tx.1530nm, US: 15...85 MHz
ONB 1257 B1F-15-85 RFoG Mininode	57003050	Rx.1545...1560 nm, 110 dBμV Tx.1570nm, US: 15...85 MHz
ONB 1259 B1F-15-85 RFoG Mininode	57003051	Rx.1545...1560 nm, 110 dBμV Tx.1590nm, US: 15...85 MHz
ONB 1261 B1F-15-65 RFoG Mininode	57003149	Rx.1545...1560 nm, 110 dBμV Tx.1610nm, US: 15...65 MHz
ONB 1261 B1F-15-85 RFoG Mininode	57003052	Rx.1545...1560 nm, 110 dBμV Tx.1610nm, US: 15...85 MHz
ONB 1261 B1F-15-20 RFoG Mininode	57003150	Rx.1545...1560 nm, 110 dBμV Tx.1610nm, US: 15...204 MHz
ONB 1261 B1F-15-65/F RFoG Mininode	57003151	Rx.1545...1560 nm, 110 dBμV Tx.1610nm, US: 15...65 MHz, inkl. FOSTR F
ONB 1261 B1F-15-85/FRFoG Mininode	57003152	Rx.1545...1560 nm, 110 dBμV Tx.1610nm, US: 15...85 MHz, inkl. FOSTR F
ONB 1261 B1F-15-20/F RFoG Mininode	57003153	Rx.1545...1560 nm, 110 dBμV Tx.1610nm, US: 15...204 MHz, inkl. FOSTR F