

## MINI FIBRE NODE

### Mini Node for HFC and RFoG networks

FTTH / FTTB- Applications

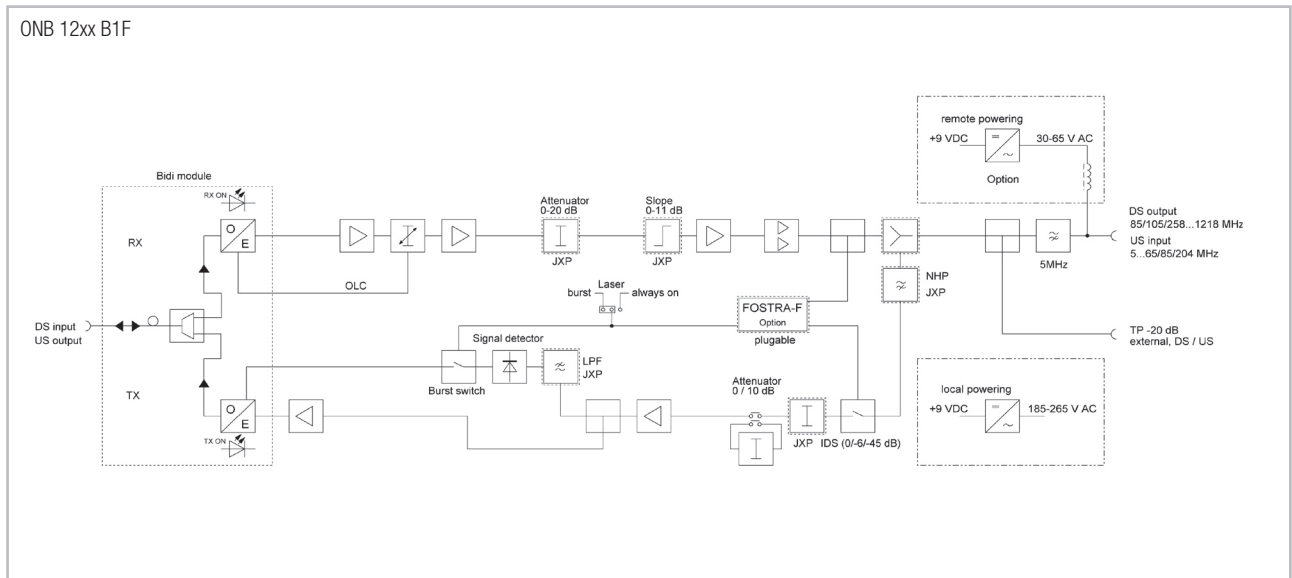
- One fibre design with integrated CWDM filter
- Constant output level over a wide range of optical input power
- OLC-function based on optical input power
- ONB T with up to 4 Sub-channels per one CWDM wavelength
- Low-noise CWDM DFB-Laser with Burst and CW-Mode (SCTE compliant)
- Testpoint and monitoring LED for optical input power
- Upstream with Diplexer RLK565-1/585-1 selectable
- RF-testpoints for Upstream and Downstream
- Remote controllable in DS & US due to FOSTRA-F receiver module
- Optional remote power
- Available with GPON-Bypass



see ONB T on the image



Type	ONB 1200	ONB 12xx B1F-X	ONB 12xx T B1F-X
Description	Optical Mini receiver	DS: 1550nm / 1310nm US: CWDM	DS: 1550nm US: CWDM Subchannels
	85...1218 MHz 110 dBµV RF-Output level	85...1218 MHz 110 dBµV RF-Output level	85...1218 MHz 110 dBµV RF-Output level



Type		ONB 12xx B1F	ONB 12xx T B1F
Applications		HFC, FTTC, DOCSIS-PON, RFoG	
Compact die-cast housing	cm	200 x 90 x 55 / IP 50, In-door	225 x 190 x 80
Weight	kg	0.9	1.8
Fibre connectors		SC / APC, 2 pcs (without internal WDM), 1 pcs (with internal WDM)	
RF connectors		F-female	
Mains feeding	V~/W	200 - 240 / 10.4	200 - 240 / 11.5
Operating temperature		-20...+55 Free convection	
Adjustment elements		PAD and Jumper	
Internal WDM (Tx / Rx)		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	-20 (F-female, external)	
Monitoring optical input		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
	Wavelength		CWDM 1450, 1470, 1510, 1610
	Number of Sub-channels		0 4
	RF input dynamic range	dBμV	61...91 („Laser ON“ @ 67 dBμV)
	Frequency range	MHz	15...204
	OMI per Channel		8% @ 70 dBμV
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 X - 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 200 - 240 V~	12: Up to 1218 MHz	27: 1270 nm	B: Burst mode and Continuous mode	15: 1550 nm	1: One fibre for US and DS	65: RLK 565-1 (5-65/85)
R: Remote powering 28-65 V~		29: 1290 nm	F: FSK-monitoring			85: RLK 585-1 (5-85/105)
		31: 1310 nm	1: RF-Output level 110 dBμV			20: RLK 5200 (5-204/ 258)
		33: 1330 nm	T : Tunable wavelength			
		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					

Please use the following item numbers when ordering:

Type	Item No.	Description
ONB 1200	57003154	Optical Mini-Node 1260...1620 nm, 5...1218 MHz, -8...+2dBm
ONB 1227 B1F-15-85	57003036	1270 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1229 B1F-15-85	57003037	1290 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1231 B1F-15-85	57003038	1310 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1233 B1F-15-85	57003039	1330 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1235 B1F-15-85	57003040	1350 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1237 B1F-15-85	57003041	1370 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1239 B1F-15-85	57003042	1390 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1241 B1F-15-85	57003043	1410 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1243 B1F-15-85	57003044	1430 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1245 B1F-15-85	57003045	1450 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1247 B1F-15-85	57003046	1470 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1249 B1F-15-85	57003047	1490 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1251 B1F-15-85	57003048	1510 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1253 B1F-15-85	57003049	1530 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1257 B1F-15-85	57003050	1570 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1259 B1F-15-85	57003051	1590 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1261 B1F-15-85	57003052	1610 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, Fostra-F prepared
ONB 1261 B1F-15-65	57003149	1610 in US, 1540-1565 in DS, 230 V~, 85-1218 MHz, Fostra-F prepared
ONB 1261 B1F-15-20	57003150	1610 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, Fostra-F prepared
ONB 1261 B1F-15-65/FOSTRA	57003151	1610 in US, 1540-1565 in DS, 230 V~, 85-1218 MHz, incl. Fostra-F module
ONB 1261 B1F-15-85/FOSTRA	57003152	1610 in US, 1540-1565 in DS, 230 V~, 105-1218 MHz, incl. Fostra-F module
ONB 1261 B1F-15-20/FOSTRA	57003153	1610 in US, 1540-1565 in DS, 230 V~, 258-1218 MHz, incl. Fostra-F module