

Designed  
in the EU

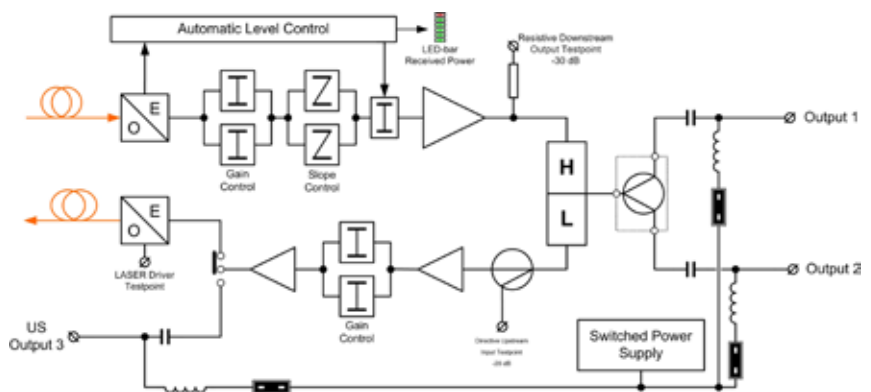


## 1GHz Fibre Deep Optical Node Unit ONU20 FTTLA

The optical node is a low cost, high performance optical node which can be implemented economically in all new and existing cable TV system architectures. The node has been designed for simplicity of installation and operation. No expensive optical test equipment is needed. A LED-bar gives an indication of the received optical power in steps of 2dBm. There is no need for any optical measurement device. For a received optical power between -6dBm and +2dBm, the output level will remain constant at  $2 \times 114 \text{ dB}\mu\text{V}$ . The input pigtail is standard equipped with a SC APC 8° connector. Other connectors are available on demand. A hybrid with integrated PIN diode is used to convert the optical in an electrical signal. The RF signal at the output is adjustable both in level and tilt using standard JXP plug-in attenuators. A service interruption prevention facility is included to avoid any signal interruption during node adjustment. The node can be used with a number of different powering options.

### MAIN FEATURES:

- Automatic Level Control
- High Output level
- Easy Installation & Adjustment
- Service Interruption Prevention during adjustments
- FP Laser Return Path Transmitter module
- Compact Die-cast Aluminium Housing
- Excellent Surge And Transient Protection



## C-COR BROADBAND

### Australasian Office

2 Anzed Court  
Mulgrave VIC 3170  
Australia  
T: +61 3 8542 0600  
F: +61 3 8542 0629  
E: sales@c-cor.com.au  
www.c-cor.com.au

### India Office

316, Corporate Avenue  
Sonawala Lane Goregaon (E)  
Mumbai 400 063  
India  
T: +91 22 26 86 27 71  
E: sales@c-cor.com.au

### Philippines Office

3rd Floor, BJS Building  
1869 P. Domingo Street  
Makati City 1207  
Philippines  
T: +63 2 836 0046  
E: sales@c-cor.com.ph

© C-COR Broadband.

Issued March 2010.  
Subject to change without notice.

C-COR Broadband is an authorised distributor for Technetix Group in South Asia, Philippines and Australasia.

\*The product and company names are the property of their respective owners.

TX	ONU 20 -	W	XX	00	0
		Diplex Filter 4 = 42/54 6 = 65/85	Connector FU = FC/UPC SU = SC/UPC F8 = FC/APC8° F9 = FC/APC9° S8 = SC/APC8° S9 = SC/APC9° LC = LC/UPC MU = MU E2 = E2000	Return Module 00 = none 31 = 1310 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 FL = FP FI = FPI	Option 0 = none

	Port	Range	Min	Typical	Max	Units	Remark
Connectors	RF in			5/8"			
	RF Out			5/8"			
	Optical			SC/APC 8°			11
Temperature Range	Within Specifications		-20		+60	°C	
	Functional		-20		+70	°C	
Equipment Approval	CE						
Mechanical	Dimensions L x B x H	230 x 180 x 100				mm	
	Weight			1.15		Kg	
Screening	-	30 MHz < F < 300 MHz	75	85		dB	7
Power Supply	Voltage		30		60	VAC	6
	Consumption			26		W	
Testpoint	Downstream			-30 +/- 0.5		dB	
	Upstream			-20 +/- 0.5		dB	
RF	Frequency range		54/85		1000	MHz	
	Flatness			+/- 1		dB	
	Maximum Output lvl			2 x 114		dBμV	1
	Optical Input level		-6		+2	dBm	2
	Impedance			75		Ohm	
	Return Loss			>16		dB	
	Gain Control			JXP atten.		dB	3
	Slope Control			JXP atten.		dB	3
	C/N			53		dB	4
	CSO			-60		dBc	5
	CTB			-55 / 60		dBc	5
Optical	Wave Length		1290		1600	nm	
	Detector Type			PIN Diode			
	Max. Optical Power			1.0/2.0		mW	
	Type of Fiber			Single Mode			
	Return Loss			>45		dB	
Indicators (Int.)	Optical level indication	LED-bar in 2dBm steps	-6		+2	dBm	

## Remarks

- RF Output level for Optical input between +2dBm and -6dBm and for OMI of 4.5%
- Automatic Level Control Range
- Standard Values 0/3/6/9 dB (JXP type)
- C/N 53 dB for 0 dBm at the input of the Receiver
- 60dBc for 42 CENELEC channel Plan and 2 x 114 dBμV with tilt of 10dB  
55dBc for 42 CENELEC channel Plan and 2 x 114 dBμV with tilt of 10dB
- Sine / Square Wave Form
- Transfer impedance method according IEC 60728-2 (5-30 MHz), Absorption clamp method according IEC-60728-2 § 4.4 (30-862 MHz)
- Other types available (FC/APC, E2000, LC)
- For return laser module specifications: ask for accessories datasheet