



ULTRA MINI Indoor Fiber Node

Please contact Supply Solutions @ 866-978-7759 to place an order.

PDF Courtesy of PCT

New ultra mini fiber node offers drop in modularity wherever your fiber takes you!

PCT's Ultra Mini Fiber Node (UMFN) offers flexibility in operation and unchallenged price vs. performance in a unique miniature housing. Low distortion and flexible input levels allow for deployment where conventional nodes are impractical. Low power consumption and surge withstand design provide low energy consumption and long-term, trouble free operation. Designed as a network segmentation tool, the UMFN allows node splitting and is available in receiver only configurations. For applications requiring return transmitter, PCT's standard Mini Fiber Node (MFN) offers return path transmitter choices of 1310 FP, 1550 DFB, or 8 wavelengths of CWDM.



- 1 GHz design

Excellent distortion specs:

- CNR > 51 dB
- CSO < -65 dBc
- CTB < -67 dBc

- Operates from -8 to -1 dBm and from 1200 to 1620 nm wavelengths
- Perfect for FTTx video overlays
- Small, modular form factor for simple installation



SPECIFICATIONS

	PCT-UMFN-AS	PCT-UMFN-55AS	PCT-UMFN-65AS
OPTICAL RECEIVER			
RF			
Frequency Range	54 to 1000 MHz		
Output Level	21 dBmV @ -4 dBm optical input, 80 NTSC channels loading		
TYPICAL PERFORMANCE			
CNR	> 48 dB @ -4 dBm optical input ¹		
CSO	< -65 dBc @ -4 dBm optical input		
CTB	< -67 dBc @ -4 dBm optical input		
Impedance	75 Ω		
Output Return Loss	< -16 dB		
Flatness	± 1 dB		
OPTICAL			
Wavelength Range	1200 to 1620 nm		
Input Power	-8 to -1 dBm		
Connector	SC/APC - standard **		
Return Loss	≥ 55 dB with UPC type connector, ≥ 60 dB with APC type connector		
ELECTRICAL / ENVIRONMENTAL / MECHANICAL			
Power	12 VDC F-type connector AC/DC power adapter or RF output port with optional power inserter *		
Operating Temperature	-40 to +60° C (-40 to +140° F) ambient		
Humidity	Up to 95% non-condensing		
Dimensions (W x H x D)	86 x 59.8 x 25.8 mm (3.4 x 2.4 x 1 in)		
Weight	142 g (5 oz)		

Notes: 1 CNR ≤ 51 dB with -1 dBm optical input

* Power adapter included. Optional power inserter is available. Specify line voltage and plug type when ordering.

** Other connector types available upon special request.

ORDERING INFORMATION

PART NO.	DESCRIPTION
PCT-UMFN-AS	Ultra Mini Node, Receiver Only, SC/APC, w/ US Power Adapter and Inserter
PCT-UMFN55-AS	Ultra Mini Node, Receiver Only, SC/APC, w/ Japaneses Power Adapter and Inserter
PCT-UMFN65-AS	Ultra Mini Node, Receiver Only, SC/APC, w/ European Power Adapter and Inserter

OPTION

PCT-MPI -1G	Power Inserter, Ultra Mini Fiber Node
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PCT-UMFN-AS