



## QHFCN 2-way Mini Node:

### Features:

- ▶ High quality, cost-efficient mini node to support all traditional HFC services
- ▶ Supports CATV & data services over fiber to MDU, business campus & private network customers
- ▶ Compact form factor in a ruggedized & temperature hardened housing
- ▶ Supports the full forward path spectrum up to 1 GHz
- ▶ 5-42 MHz or 5-65 MHz band split options for use internationally
- ▶ Optional integrated WDM allows both forward & return path to utilize the same fiber
- ▶ RF test points for forward & return path levels
- ▶ Optical test points for input power & output power
- ▶ LED indications for DC power, optical transmit & optical receive



### QHFCN Specifications

SPECIFICATIONS	QHFCN
<b>RECEIVER (Forward Path)</b>	
WAVELENGTH	1280-1620nm
OPTICAL INPUT POWER RANGE	-6 to +3 dBm
FREQUENCY RANGE	54-1000 MHz
RF OUTPUT POWER	+25 dBmV ( $\pm 1$ dB)
CARRIER TO NOISE RATIO	52 dB (78 channel loading, 0 dBm input)
COMP. 2nd ORD.	-60 dBc (78 channel loading, 0 dBm input)
COMP. TR. BT.	-65 dBc (78 channel loading, 0 dBm input)
OPTICAL CONNECTOR	SC/APC
<b>TRANSMITTER (Optional Return Path)</b>	
WAVELENGTH	1310nm $\pm 20$
OPTICAL OUTPUT POWER	0.5 to +2 dBm (1 dBm typical)
RF FREQUENCY	5-42 MHz or 5-65 MHz
RETURN PATH RF INPUT POWER	+20 dBmV
FREQUENCY RESPONSE	$\pm 0.75$ dB (5-42 MHz)
OPTICAL CONNECTOR	SC/APC
<b>ELECTRICAL &amp; ENVIRONMENTAL</b>	
DC POWER	11.5-16 VDC
TOTAL POWER CONSUMPTION	< 3 watts typical @ 12 VDC
AC POWER ADAPTER	Universal AC Adapter, 12 VDC Out
DC POWER INPUT RANGE	40-60 VDC
LED INDICATORS	DC Power, Optical Transmit, Optical Receive
OPTICAL TEST POINTS	Input Power, Optical Output Power (1V/mW)
RF TEST PORTS	Forward and Return Path F Connector
OPERATING TEMPERATURE	-20°C to +60°C (-4°F to +140°F)
HUMIDITY	5-95% Non-condensing
DIMENSIONS	1.25"H x 5.25"W x 4.25"D (3.2H x 13.3W x 10.8D cm)

Specifications subject to change without notice.

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### Ordering Information

Part Number	Description
QHFCN	Mini Node, 2-way, 54-1000 MHz, 5-42 MHz Return, +25 dBmV, SC/APC
QHFCN-W	Mini Node, 2-way, 54-1000 MHz, 5-42 MHz Return, +25 dBmV, WDM, SC/APC
QHFCN-ER	Mini Node, 2-way, 54-1000 MHz, 5-65 MHz Return, +25 dBmV, SC/APC
QHFCN-ER-W	Mini Node, 2-way, 54-1000 MHz, 5-65 MHz Return, +25 dBmV, WDM, SC/APC

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