HFC Enhance®

Mini Node

D3.1 / CCAP™ Compliant

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 (front view)

QHFCN Specifications

SPECIFICATIONS	QHFCN
RECEIVER (Forward Path)	
WAVELENGTH	1280-1620nm
OPTICAL INPUT POWER RANGE	-6 to +3 dBm
FREQUENCY RANGE	54-1000 MHz
RF OUTPUT POWER	+25 dBmV (± 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
TRANSMITTER (Optional Return Path)	
WAVELENGTH	1310nm ± 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	± 0.75 dB (5-42 MHz)
OPTICAL CONNECTOR	SC/APC
ELECTRICAL & ENVIRONMENTAL	
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	-20ºC to +60ºC (-4ºF to +140ºF)
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)
WEIGHT	0.62 lbs (0.28 kg)

QHFCN 2-way Mini Node:

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

Specifications subject to change without notice.

ISO 9001 REGISTERED

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