



# MDU Solutions®



## QFHPN High Power Optical Node with AGC:

### Features:

- ▶ Cost-efficient optical node for reception of NTSC, PAL & digital signals over fiber for CATV & telephony applications
- ▶ Optical AGC provides consistent & reliable performance
- ▶ Integrated LCD interface allows viewing of status and adjustment of attenuation & tilt
- ▶ Available in 2-way, receive only & PON configurations
- ▶ 50-1000 MHz forward path
- ▶ 5-42 MHz return path
- ▶ Small form factor with rugged housing
- ▶ RF test points for forward & return path levels
- ▶ Available in 2-way configuration with +40 dBmV RF out and 1-way (receive only) configuration with dual +44 dBmV RF out



### QFHPN Specifications

SPECIFICATIONS	QFHPN
<b>RECEIVER (Forward Path)</b>	
WAVELENGTH	1260-1620nm
OPTICAL INPUT POWER RANGE	-9 to +1 dBm (8 dB optical AGC range)
FREQUENCY RANGE	54-1000 MHz
FREQUENCY RESPONSE	± 1.5 dB (54-1000 MHz)
RF OUTPUT POWER	+40, +44 dBmV (at 0 dBm optical input, +44 dBmV applies to dual RF output model only)
TILT	0-12 dB (54-550 MHz, 1 dB steps)
RF ATTENUATION	0-16 dB (1 dB steps)
CARRIER TO NOISE RATIO	51 dB (78 channel loading, 0 dBm input)
COMP. 2nd ORD.	-60 dBc (78 channel loading, 0 dBm input)
COMP. TR. BT.	-60 dBc (78 channel loading, 0 dBm input)
RF TEST POINT	-20 dB (referenced to output)
<b>TRANSMITTER (Optional Return Path)</b>	
WAVELENGTH	1310nm ± 20
OPTICAL OUTPUT POWER	+1 dBm (± 1 dB)
RF FREQUENCY	5-42 MHz
RETURN PATH RF INPUT POWER	+22 to +35 dBmV
FREQUENCY RESPONSE	± 0.75 dB (5-42 MHz)
RF TEST POINT	-20 dB (referenced to input)
<b>ELECTRICAL &amp; ENVIRONMENTAL</b>	
DC POWER	5-8 VDC
TOTAL POWER CONSUMPTION	< 6.5 watts
AC POWER ADAPTER	AC Adapter, 120 VAC to 5 VDC
DC POWER INPUT RANGE	40-60 VDC
OPERATING TEMPERATURE	-10°C to +55°C (+14°F to +131°F)
HUMIDITY	5-95% Non-condensing
DIMENSIONS	1.42"H x 6.43"W x 5.45"D (3.6H x 16.3W x 13.8D cm)

Specifications subject to change without notice.

## QFHPN High Power Optical Node with AGC:

### Ordering Information

Part Number	Description
QFHPN-2W	Optical Node, 2-way with Return Path Laser, +40 dBmV, 1 GHz, AGC, SC/APC
QFHPN-D44	Optical Node, Receive Only, Dual +44 dBmV, 1 GHz, AGC, SC/APC

**NOTE:**  
WDM and CWDM options available. Please contact ATX for specifications and pricing.

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