

HIGHLIGHTS

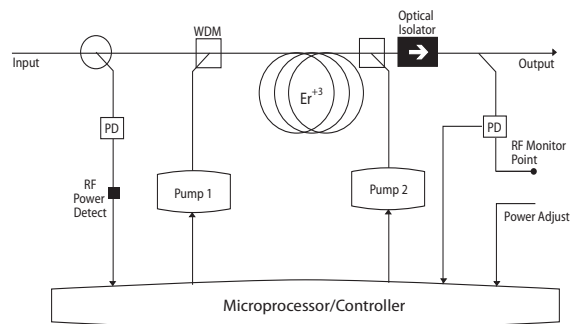
- Reclaim fiber with DWDM technology
- Eight-wavelength solution for network segmentation and fiber deep applications
- Simple “plug-and-play” operation reduces time and cost of installation
- Microprocessor control of all key parameters provides consistent, optimized product performance and monitoring

PRELIMINARY

The Harmonic SUPRALink™ transmission system is a family of transmitters, optical amplifiers, and passives designed for 1550 nm full-band DWDM network applications. The SUPRALink system allows service providers to deploy optical nodes deeper in the network while minimizing the cost of constructing new fiber routes.



For system reach greater than 25km, optical amplifiers are required. The HOA 7020H is designed for up to 8 wavelength, 40km applications. The HOA 7020H modules are compact, with 5 amplifier modules fitting into a single three-rack-unit high HLP 4200 platform. They are intelligent and can be set up in a matter of minutes by means of the user-friendly interface. A user can configure an amplifier either via the HLP 4200WD platform display or the NETWatch™ Element Management System.



Standard Configuration

OPTICAL OUTPUT

Wavelength	1535 nm - 1565 nm
Optical Output Power HOA 7020H-GF	+20 dBm (100 mW)
Optical Power Adjustment Range	
Number of Wavelengths	Set from 1 to 8 for all models
Output Power per Wavelength ¹ HOA 7020H-GF	+8 to +11 dBm
Input Power Range ² HOA 7020H-GF	+11 dBm to +14 dBm
Noise Figure (dB) ³ HOA 7020H-GF	5.0
Optical Return Loss	< -50 dB
Polarization Sensitivity	< 0.1 dB
Laser Shutdown HOA 7020H-GF	DISABLE/ENABLE switch
Eye Protection	Safety shutter

NETWATCH™ ELEMENT MANAGEMENT SYSTEM

NETWatch Interface (in HLP 4200)	RS-485, RS232C connectors
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POWER REQUIREMENTS

Nominal	+24 VDC; supplied by HLP 4200 bus
Maximum	+26 VDC
Consumption	22 Watts maximum

USER INTERFACE

Front Panel	
Bi-state Status LED	Normal = Green, Alarm = Red
Module Selection Indicator	Yellow LED
Auto/Manual LED	Auto = Yellow
Function slide switch and set-up adjustment	
Monitor Point	
Flatness	±1 dB
Return Loss	> 16 dB
Connector Type	Male GSK
Rear Panel	
Laser ENABLE switch	
Laser Disabled	Yellow LED

ENVIRONMENTAL

Operating Temperature Range	0° to 50° C 32° to 122° F
Storage Temperature Range	-40° to +70° C -40° to 158° F
Relative Humidity	Maximum 85% non-condensing
Over Temperature Laser Protection	Software and hardware

PHYSICAL

Dimensions (WxHxD)	2.6" x 4.4" x 10.7" 6.6 cm x 11.2 cm x 27.2 cm
Weight	4 lbs. / 1.8 kg
Mounting	HLP 4200 platform; one module slot
Standard Optical Connectors	SC/APC and E2000. Other connectors available upon request.

Notes:

1. Range of output power per wavelength given for maximum number of wavelengths. For fewer wavelengths, output power per wavelength can be set higher. Consult your Harmonic application engineer for more information.
2. To achieve maximum rated output power.
3. 2 dBm input power per wavelength, 8 wavelengths.

