

I-HUB

Chassis & Accessories

Key Benefits

The I-HUB-HSG2 die cast aluminum housing provides a completely field-hardened solution eliminating the need for costly buildings & OTN sites. The housing is designed for pedestal, street cabinets, underground vaults or aerial strand mounting. The housing accommodates 10 application module slots, four in the base & six in the lid. A family of application modules makes the I-HUB ideal for advanced optical multi-wavelength forward & return path applications.

AC power is inserted on either end of the housing & two independent sources can be used for power source redundancy. Backplane boards mounted on each side of the housing provide A & B powering & communication to all I-HUB modules & control module. Dual load sharing 100W high efficiency power supply modules are distributed across the 10 slot locations.

Optical cable access is available at both ends of the housing with a specialized compression fitting to mount outside fiber plant cable or fiber service entry cables (not included). Fiber management splice & storage trays reside on both sides of the housing & above the modules. The trays are mounted on the raceway support system which can swivel for module access. Fiber jumpers are routed through the fiber channels & up to the corresponding trays & modules.

One of two controller modules is available to be installed in the lid of the housing & does not occupy one of the 10 application module slots.

IH-CTRL2: Supports DB15 serial interface for hand-held interface or CLI. Also supports FSK carrier source to be transported back to the headend/hub receiver for 1-way monitoring of I-HUB.

IH-CTRL3: Supports same as CTRL2, but adds RJ45 port & dual SFP cages for up to 3x 10/100 Ethernet interfaces for Web/SNMP monitor & control, locally or remotely.



Chassis
(open view)

Applications

Single, multi-wavelength & bi-directional optical extension for:

- Hub elimination
- Node splitting & segmentation
- RFoG & FTTx
- Long haul super-trunking

Features

- Field-hardened, strand, pedestal or wall mounted
- 10 single or five double modules
- EDFAs, optical switches, optical stacker modules
- Redundant powering
- Integrated controller card for status monitoring
- Optional controller card for set-up & monitoring



Chassis (open view)

Specifications

Chassis

	IHUB-HSG2 ⁽¹⁾
AC SUPPLY ENTRY PORTS ⁽²⁾	2 (5/8-24 UNEF)
OPTICAL FIBER ENTRY PORTS	2 (5/8-24 UNEF)
AC POWER CONSUMPTION ⁽³⁾	17.4W
EMI SHIELDING ⁽⁴⁾	100 dB
ENVIRONMENTAL	
OPERATING TEMPERATURE ⁽⁵⁾	-40°C to +65°C (-40°F to +149°F)
STORAGE TEMPERATURE	-40°C to +85°C (-40°F to +185°F)
HUMIDITY	5-85% Non-condensing
PHYSICAL	
DIMENSIONS	10.0"H x 20.0"W x 8.5"D (25.4H x 50.8W x 21.6D cm)
WEIGHT (without Modules)	27.5 lbs (12.5 kg)

NOTES:

- (1) Includes two IHUB-PS-90A-100 & dual fiber management trays. Does not include controller module.
- (2) Primary AC port #3, secondary AC port #6.
- (3) Includes single I-HUB controller & two I-HUB DC power supplies. Add wattage of any installed application modules.
- (4) Per ANSI/SCTE 48-2 2008.
- (5) Chassis internal thermal alarm condition at approximately +90°C, thermal overload shut down approximately +95°C internal temperatures. Recovers automatically when the temperature drops below +85°C.

Specifications

Power Supply Module

	IHUB-PS-90A-100		
	MIN	TYP	MAX
AC INPUT SUPPLY VOLTAGE ⁽¹⁾	60 VAC		90 VAC
AC INPUT POWER			125W
DC OUTPUT VOLTAGE	12.6 VDC	13.0 VDC	13.4 VDC
DC OUTPUT CURRENT			7.5A
DC OUTPUT POWER			100W
EFFICIENCY		83%	
OPERATING TEMPERATURE	-40°C to +65°C (-40°F to +149°F)		
HUMIDITY	5-85% Non-condensing		
DIMENSIONS	3.5"H x 5.0"W x 2.1"D (8.9H x 12.7W x 5.3D cm)		
WEIGHT	1.5 lbs (0.6 kg)		

NOTE:

- (1) Use 90 VAC supply only, 50/60 Hz input frequency.

Ordering Information

Part Number	Description
IHUB-HSG2	I-HUB Housing with 10 Application Slots. Includes Dual Power Supply & Dual Fiber Management Trays. Does not include Control Module or Fiber Jumpers shown in photo.
IHUB-CTRL2	Standard Control Module supporting DB15 Serial Interface & FSK Generation for Remote Monitoring when used with Application Module having FSK Transmitter & Headend Return Receiver with FSK Receiver.
IHUB-CTRL3	Advanced Control Module supporting same Interfaces as CTRL2, but also RJ45 & Dual SFP. Local & Remote Monitoring & Controlling supported for any modules.
IHUB-PS2-90A-100	Replacement 100W, 60-90 VAC Input Power Supply Module
DSP-HHU	Hand-held Display Unit for ChromaFlex & IHUB-CTRL2 Module for Local Monitoring & Controlling. Includes DB15 Interface Cable.
DSP-HHU-3	Hand-held Display Unit for ChromaFlex, IHUB-CTRL2 & IHUB-CTRL3 Controller Modules for Local Monitoring & Controlling. Includes DB15 Interface Cable & Adapter Cable for Mini Displayport M to Displayport M.

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