

I-HUB



Chassis:

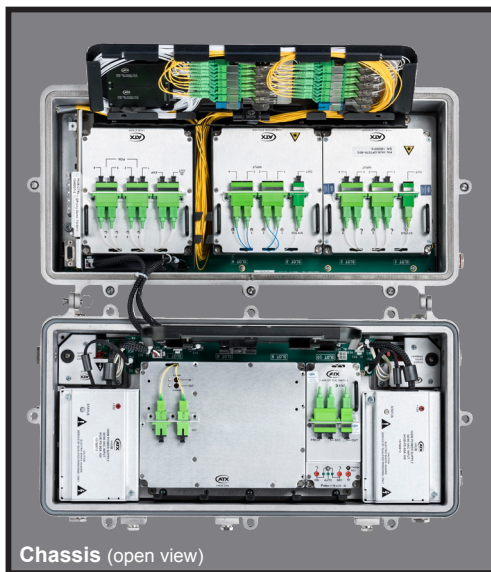
Applications:

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



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.

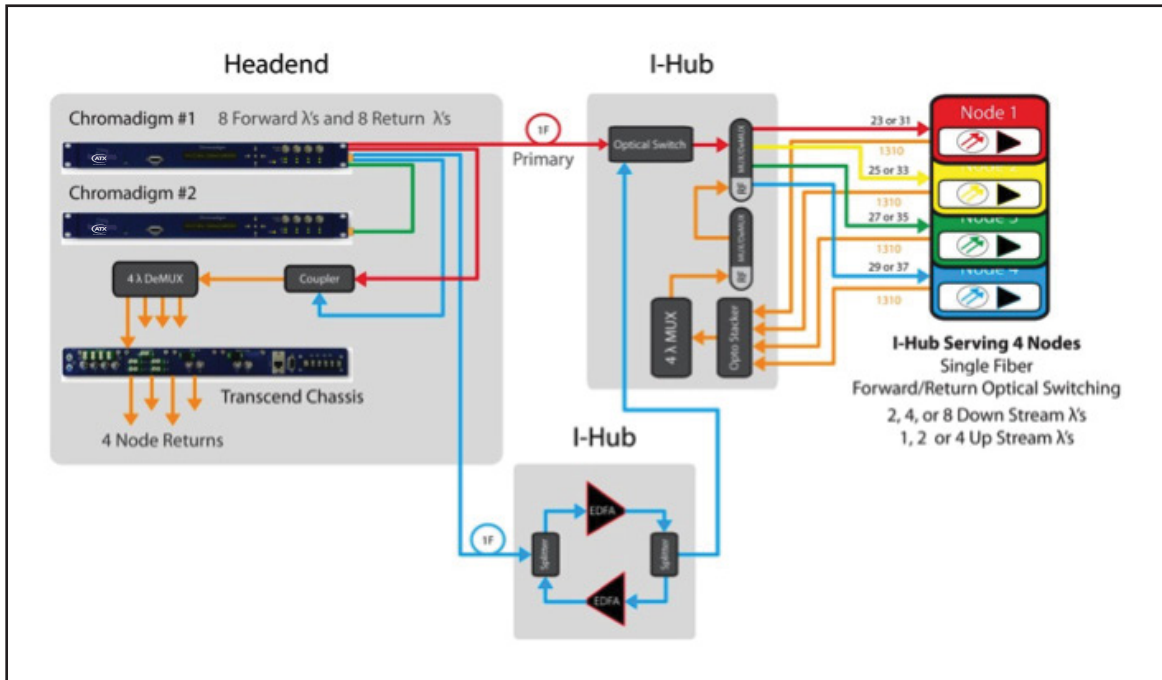
AC power is inserted on either end of the housing & two independent sources can be used for power source redundancy. Backplane boards mounted on each side of the housing provide A & B powering & communication to all I-HUB modules & control module. Dual load sharing 100W high efficiency power supply modules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

A control module located in the lid of the housing communicates with the modules via the backplane boards. Communications for network monitoring is accomplished via a return data transmitter (SFP) or through an opto-stacker module. A local interface via an external umbilical cord is used for local monitoring & threshold setting adjustments.

Chassis:

Block Diagram



Ordering Information

Part Number	Description
IHUB-CTRL2	I-HUB Control & Communication Module
IHUB-PS2-90A-100	I-HUB 100W, 60/90 Power Supply Module
DSP-HHU	Hand-held Display Unit for Local Monitoring & Controlling, includes DB15 Interface Cable
IHUB-OS-C	I-HUB Direction Sensitive, 2x1 Optical Switch Module for C-Band Applications. Direction Sensitive with an Input Range of -10 dBm to +15 dBm using SC/APC Connectors in a Single-slot I-HUB Module.
IHUB-DSA*-*-*-C	I-HUB Field-hardened Dual-stage EDFA with Interstage Dispersion Compensation (either 20, 30, 40 or 50 km), 6, 9 or 12 dB Gain & 15, 18 or 20 dBm of Total Output Power with SC/APC Connectors in a Three-slot Module.
IHUB-GCA-*-*-S-C	I-HUB Field-hardened EDFA with AGC, 6, 9 or 12 dB Gain & 15, 18 or 20 dBm of Total Output Power with SC/APC Connectors in a Single-slot Module.
IHUB-POA-4*-*-EL	I-HUB Field-hardened PON EDFA Module, supports four optical outputs each with an Express Port at 7, 10, 14 or 17 dBm of Single Wavelength Output Power using either SC/APC or LC/APC Input Connectors & LC/APC Output Connectors in a Two-slot Module.
IHUB-OPSTKM*-*-*-*	I-HUB Field-hardened Opto-stacker with Optical AGC & In-Band Monitoring, Four Optical Return Receiver Inputs with Three Ranges of Receiver Input Levels (1 = 0 to -15 dBm, 2 = -14 to -22 dBm & Blank = +3 to -10 dBm), 5-85 MHz Frequency Stacking with a Muxed Output of +8 dBm using either SC/APC or LC/APC Connectors in a Two-slot Module.

Specifications subject to change without notice.



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