

Optical Node Series (NC)

NH4000-UVPx Universal VHub (UVHub) Platform

FEATURES

- 12 module slots, each with RF connectivity, enable increased flexibility suited for a variety of applications
- Increased RFoG capabilities
- RF Return passband filtering and combining supported by passive pluggable modules for simplified network upgrades and evolutions
- Enables OBI-free RF Return options
- Supports 10G EPON Remote OLT (R-OLT) applications
- 150 Watt high-efficiency power supplies support redundancy and system reliability
- Six fiber in/out ports enable large fiber distributions and expansions
- Remote and local monitoring and management using Opti-Trace®
- Same form-factor and physical dimensions of the popular NC4000/NH4000 Virtual Hub (VHub) platform
- Strand or pedestal mounting



PRODUCT OVERVIEW

Designed around the widely deployed ARRIS NC4000 Node platform, the NH4000-UVP Universal VHub Platform retains the same external physical dimensions, form-factor, and electrical/mechanical specifications. This second-generation Virtual Hub has features that enhance and increase flexibility for RFoG, RF + PON, Broadcast/Narrowcast, and PON-only designs supporting commercial and residential services.

Interior components of the UVHub (motherboard, power chassis board, and power supply) have been redesigned to provide greater flexibility for cable operator installations. Specifically, the UVHub enables RF connectivity in all module slot positions for higher RF return density and segmentation. A high-efficiency 150 watt power supply is included and a second power supply is available in the -UVP2 version for redundancy and increased reliability.

The NH4000 Universal Virtual Hub is packaged in a weatherproof aluminum housing that protects the individual modules and efficiently dissipates internally generated heat.

ARRIS Universal VHub offer the following additional features and benefits:

- Supports OBI-free RF Return technology
- Accommodates multiple combinations of ARRIS VHub/UVHub plug-in modules to support various architectures
- Up to 12 plug-in active and/or passive modules: six in the Base and six in the Lid, providing high-density functionality
- Base and Lid both support RF connectivity, enabling multiple segmentation options
- Improved fiber tray provides more efficient fiber management and handling
- Supports all first generation VHub plug-in modules
- Lid and Base motherboards accommodate plug-in modules for RF return filtering band-splits, RF return aliasing, and segment combining
- Six fiber entry ports support large distributions and two AC power entry ports support independent redundant power
- Local and remote monitoring and management using ARRIS Opti-Trace® software

The UVHub can transform a fully operational indoor Hub to a standard weatherproof outdoor node enclosure that is closer to subscriber locations in order to more efficiently deliver services. Simultaneously, it reduces capital and operating expenses as well as minimizes installation time and time to revenue realization.

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	20" L x 9.5" W x 10.75" H (50.8 cm x 24.1 cm x 27.3 cm)
Weight	38 lbs. (17.1 kg) not including pluggable modules
Housing Ports	2 AC Only Ports, and 6 fiber ports
Environmental	
Operating Temperature Range	-40° to +60°C (-40° to +140°F)
Storage Temperature Range	-40° to +85°C (-40° to +185°F)
Humidity	5% to 95% non-condensing
Power Supply (PS4102)	
Operating Input voltage range	44 to 95 V _{RMS} (50–60 Hz Quasi-Square Wave). 6.0 A max
Output currents (PS4102)	
24 V	5.0 A max, with 5 V load; 6.0 A max, without 5 V load
5 V	5.0 A max
DC power consumption	Dependent on the specific configuration and number of installed modules
Surge	6 Kv minimum, per SCTE
Protection	Over-voltage, over temperature, short circuit with auto-reset

NOTE:

Please refer to individual product data sheets regarding specific products mentioned in this document.

ORDERING INFORMATION

Model Name	Description
NH4000-UVP1	NH4000 Housing with one PS4102 150 Watt Power Supply, PC4010 Base Power Chassis, LM4010 Lid Motherboard, Fiber Management Tray
NH4000-UVP2	NH4000 Housing with two PS4102 150 Watt Power Supplies, PC4010 Base Power Chassis, LM4010 Lid Motherboard, Fiber Management Tray

RELATED PRODUCTS

VT/DT4250 Digital Return Transceivers	OR41x8, OR4216R Optical Diplexer/Receivers
EDFA Fiber Amplifiers	VP40XX RF Return Passband Plug-in Modules
Opti-Trace Software	CP8xxx OBI-free RFoG ONUs

Customer Care

Contact Customer Care for product information and sales:

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- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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UVHub-NH4000