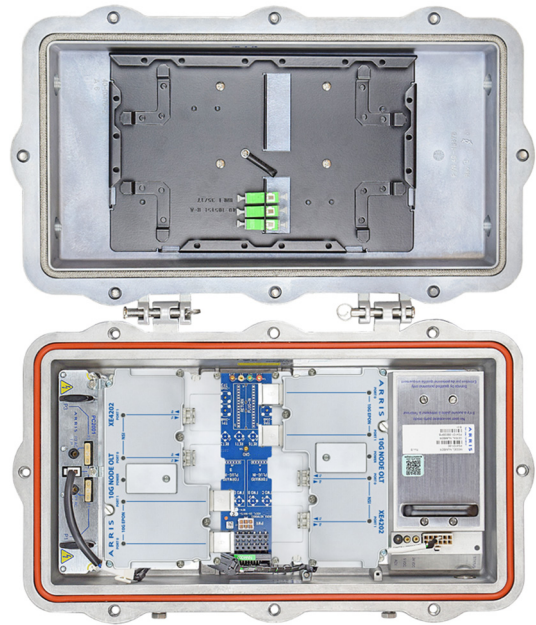


# Optical Node Series (NC)

## NH2000-VHP4 Optical VHub Platform for R-OLT PON Applications

### FEATURES

- Compact mini VHub platform supports specialized applications
- Six plug-in slots house two XE4202M Remote OLTs (R-OLTs), providing 512 subscriber ONUs with 10G EPON
- 150 Watt high-efficiency PS4101 Power Supply supports R-OLTs and associated port transceiver optics operating at full transmission speed
- Based on the proven ARRIS NC2000, NC4000 node, and VHub platforms, all supporting common plug-in modules
- Extended external heat fins efficiently dissipate internally generated heat
- Strand, wall, pedestal, or cabinet mounting with bottom entry ports



NH2000-VHP4 shown with two XE4202M Remote OLTs (Sold Separately)

### PRODUCT OVERVIEW

Following the widely deployed ARRIS NC/NH2000 “mini” Node and VHub platforms, the NH2000-VHP4 compact VHub platform increases flexibility for remote PON-only installations for commercial and residential services. The platform retains the basic external physical dimensions and form-factor as previous NC/NH2000 platforms and now includes the PS4101 150 Watt high-efficiency power supply that ensures ample power for a fully populated R-OLT installation of two XE4202 modules supporting 512 subscriber 10G EPON Optical Network ONUs. The housing Lid now includes a longer heat-dissipating fin for efficient dispersion of internally generated heat. The bottom entry ports enable wall, pedestal, or cabinet mounting as needed.

The NC2000 includes six module slots, three on each side of the platform motherboard, that can be populated according to network architecture requirements. The platform's LM4003 motherboard accommodates single, dual, or triple-wide plug-in modules supporting a variety of popular applications where power only is required from the chassis (no RF).

When each of the three slots on each side of the motherboard are populated with an XE4202M Remote OLT (R-OLT), up to 512 subscriber Optical Network Units (ONUs) can be supplied with symmetrical 10 Gbps or asymmetrical 10/1 Gbps (downstream/upstream) EPON transmissions, at distances of up to 100 km from the upstream Secure Leaf switch/router and PON Headend. Refer to the XE4202M Remote OLT (R-OLT) documentation for more information.

When a DT4250 Return Transmitter and CH3000 Headend-based DR3450 Return receiver are incorporated into the system, ARRIS's Opti-Trace® integrated network monitoring application supports remote monitoring of the platform (not including the Remote OLT).

## SPECIFICATIONS

Characteristics	Specification
<b>Physical</b>	
Dimensions	45.9 cm L x 27.9 cm W x 16.0 cm D (18.7" x 11.0" x 6.3")
Weight	11.29 kg (24.9 lb) (not including plug-in modules for the 6 expansion slots)
Housing ports	1 AC power port, 1 fiber entry port, 3 RF/AC output ports
RF connectors	5/8" (PG11 adapter optional)
Protection class	IP67
<b>Environmental</b>	
Operating Temperature Range	-40° to +60°C (40° to +140°F)
Storage Temperature Range	-40° to +85°C (-40° to +185°F)
Relative Humidity	5% to 95% non-condensing
<b>Powering and Power Passing</b>	
Operating Input voltage	
• PS4101 input voltage range (from cable plant powering)	44 to 95 V <sub>RMS</sub> 50 – 60 Hz Quasi-Square Wave, at 6.0 A maximum
Output Voltages and Currents	150 Watts max total. Any combination of output power loads is acceptable up to the maximum rated power and must not exceed their stated maximums. Refer to individual product module data sheets for current and power consumption specifications.
24 V	6.0 A max
12 V	1.0 A max
5 V	5.0 A max
3.3 V	3.0 A max

## ORDERING INFORMATION

Model Name	Description
NH2000-VHP4	NC2000 VHub housing with extended (heat fin) Lid, PC2001 Power Chassis, 6 module expansion slots, LM4003 Motherboard, PS4101 Power Supply, FT2001 Fiber Tray, and NM4002 Network Module. All plug-in modules for the 6 expansion slots are sold separately.

## RELATED PRODUCTS

XE4202M Remote OLT (R-OLT)	SFP+ and XFP Optical Transceivers
OLT Manager Software	VT4250N VHub Monitor

## Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

**Note:** Specifications are subject to change without notice.

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