

NH-VH4000-2000 | NH/VH4000/2000 Virtual Hubs (VHub)



Outside Plant hardened Optical Virtual Hubs (VHub)

The ARRIS NH/VH4000 Series Virtual Hubs (VHub) are outside plant optical node-based platforms that can be configured to replicate and extend headend functionality to remote locations in rural or new business and home developments. VHubs provide RF and/or PON delivery support for future growth and revenue realization, without the need for expensive new brick and mortar construction and associated maintenance costs thereafter.

With a VHub solution, operators can install headend and hub-based system solutions in the field, such as traditional broadcast/narrowcast (BC/NC) amplification, combining, and point-to-multipoint distributions; long reach Fiber-deep; HFC to RF over Glass (RFoG) conversions for long-haul FTTx; and RFoG plus 10/10G EPON transmission supporting high-speed PON and Broadband Internet services, all from a single common small-footprint strand or pedestal mounted remote platform.

The VHub's modular design ensures optimal flexibility given that operators can populate the VHub platform with combinations of up to 12 application-specific modules to support both residential and commercial functional requirements. A variety of modules are available, including EDFAs, Digital RF Return Transceivers, Diplexers, Combiners, Splitters, OBI-free Optical Receivers, and XE4202 10G EPON Remote Optical Line Terminals (OLTs).

VHub and installed module remote monitoring and management are supported via ARRIS Opti-Trace® and CORView Element Management System software.

ARRIS VHubs are available in 6- and 12-slot models, supporting standardized modules. Both platforms interface to common transmitter, receiver, and switch headend equipment for operation, including the use of the remote monitoring and management tools.

With the continual introduction of more advanced modules to meet evolving Cable TV and Broadband Internet needs, the VHub plays a key role in providing the flexibility to quickly support the changing applications of today and into the future.

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Product Type	Optical hub