# Aurora Networks

Aurora **Networks** is a leading developer and manufacturer of advanced, next-generation optical transport systems for broadband networks that support the convergence of digital broadband, voice, video and data applications.

Bandwidth-hungry services such as Video-on-Demand, Interactive TV and high-speed data and telephony services are expected to become the dominant revenue generating services for broadband service providers — services that will require the fastest, most flexible and cost-effective optical networking systems available. To meet this bandwidth appetite, operators will drive optical fiber deeper into their networks and, eventually, to customer premises. While Aurora's products are optimized for such fiber deep architectures, where they provide unparalleled speed, reliability and cost savings, they are fully compatible with existing HFC networks, providing an optimal migration path to future networks, including fiber to the home or business.

Wireless Access Point and Power Gateway
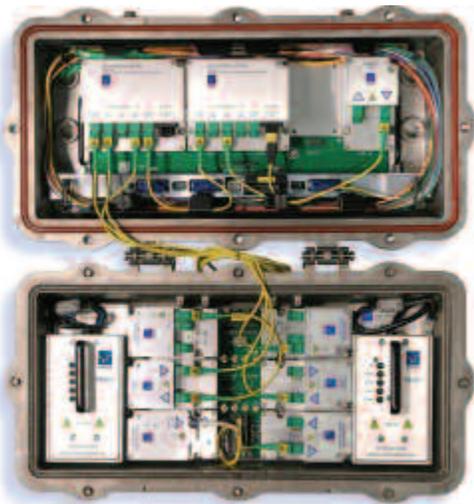
Award-winning Virtual Hub

Aurora has developed and deployed first-to-market, next-generation optical transport systems that employ unique architectures and some of the most advanced technology available, as evidenced by our extensive portfolio of patents. With full support for legacy networks, Ethernet transport and FTTH, we offer a seamless technology approach that allows network evolution based on a single, standards-based platform, eliminating the need for expensive and performance-degrading protocol conversions and, more importantly, helping to safeguard network providers from equipment obsolescence. What's more, our expertise in passive optical networks, FTTH applications, VoIP, and CWDM, DWDM and Wi-Fi architectures sets us apart as industry innovators. Aurora Networks' technologies offer incredible speed, adaptive bandwidth allocation technology and economical, highly dependable switching for unsurpassed network reliability.

Aurora's Fiber Deep HFC architecture, with its integrated digital technology, provides increased bandwidth for lucrative value-added residential and business services while eliminating all RF amplifiers and most power supplies (increasing network reliability and reducing operational costs). It is also an ideal platform from which to deploy wireless technology to address even more cost effectively the delivery of high speed data to businesses. Services are delivered via a combination of broadcast and narrowcast technologies. With Aurora's fully managed digital return technology, subscriber signals are digitized and multiplexed with Ethernet traffic for transport at 1310nm or DWDM 1550nm wavelengths. Nodes can be daisy-chained, sharing a common return channel and permitting summation of all digitized signals of the chain into a single fiber return channel for transport to the hub. As bandwidth needs grow, daisy chains can be shortened and/ or eliminated, and discrete digital reverse data streams can be multiplexed onto a common fiber, allowing each RF leg of a single node to have a dedicated virtual reverse path to the headend without the need for large numbers of additional return fibers. Moreover, at the hub, the highly segmentable return architecture enables multiplexing of all DWDM wavelengths for transport to the headend.

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