



ARRIS Access and Transport Solutions

Transform existing HFC systems into competitive and sustainable networks that increase capacity for future applications and additional subscribers

Capacity Enhancing Products for HFC Networks

CHP Max5000 Converged Headend Platform

The ARRIS CHP Max5000, a high performance headend optical platform, combines cutting edge optical transport technology, standards-based management modules, redundant powering, and front or rear fiber management in a compact footprint. The CHP Max5000 saves operators valuable space in the headend/hub with up to 52% greater density than comparable offerings on the market today. Each 19 inch 2RU chassis is designed to hold 2 isolated power supplies, 1 management module, and 10 application modules that can be mixed and matched for any delivery configuration. The 40 RU rack will hold up to 200 CHP transmitters or up to 400 CHP return receivers. The CHP Max5000 platform is rapidly deployable, robust and scalable, enabling MSOs to support multi-service, multi wavelength networks.

The Science Behind CORWave™ Multi Wavelength Solutions

A multi wavelength plan that facilitates future expansion with minimal disruption is highly challenging due to the complexities of optical physics. ARRIS has conducted exhaustive research on the effects of optical non-linear impairments and has overcome the scientific challenges inherent in multiple wavelength systems over a single fiber. This enables MSOs to load video, data, and voice services on one fiber and recover additional fibers for other revenue generating services.

CORView Element Management Software

The ARRIS CORView EMS provides a comprehensive overview of CHP-based HFC network health and capacity. Enabled with Java Web Start technology, CORView monitors all installed modules, displays all active alarms and traps, provides user management, authentication and authorization and has inventory search & report generation capability.

CORWave Optical Passives

For more information on our wide range of product offerings,

please refer to the ARRIS Access and Transport Product Quick Reference Guide (Pub code: PQRG-BOOK-XXXX).

The ARRIS optical passives are a technician-friendly solution for muxing and demuxing wavelengths over as little as one fiber with minimal service disruption and installation time. These passives are available for both headend and field applications and come in 3 varieties currently; LGX rack mount, Opti Max 4100/3100 and Tyco optical fiber management tray installations. The test point measures optical power of both forward and reverse wavelengths without service interruption. The express port can also be used as an OTDR injection port and the node kit has 2mm jacketed fibers prevent pinching and micro-bending

ARRIS Opti Max Nodes

The ARRIS line of Opti Max optical nodes is an essential part of any HFC architecture. ARRIS was first to market with a 1 GHz platform and the first to develop a 4 x 4 fully segmentable node. When deployed with CORWave forward transmitters, service groups can be up to 4X smaller, allowing more revenue generating services to be added over as little as one fiber. The modular design of the ARRIS segmentable nodes provides 'pay as you grow' scalability, enabling MSOs to deploy minimal configurations today and expand as subscriber demand increases. Both strand and cabinet mount units are available. The Opti Max line also includes backwards compatible upgrade options for legacy HFC architectures, protecting MSOs investments while providing the most up to date technology.

ARRIS Flex Max Amplifiers

The ARRIS line of Flex Max trunk, bridger and line extender amplifiers help to complete traditional HFC architectures by; amplifying RF signals over long distances, boosting signals so that outputs can be split to feed multiple paths, and providing high outputs to extend distribution lines. Flex Max amplifiers can be a cost effective alternative to Node + 0 architectures by reducing power consumption and field maintenance. A full line of 1 GHz amplifiers are available as well as backwards compatible upgrade options for 870 and 750 MHz systems.