



ARRIS Fiber Solutions

FTTMax™ RF over Glass (RFoG)

New Revenue Generating Services with ARRIS FTTMax RFoG

Add value to existing HFC infrastructure by delivering triple play services and data delivery over DOCSIS infrastructure

Add New Customers and Increase Revenue

- Easily deploy fiber deeper into the network to reach commercial and high end residential customers with ARRIS CORWave™ multi wavelength technology, TransMax™ RFoG repeaters and optical passives
- Compete effectively with Telcos and overbuilders with cable compatible Fiber-to-the-Premises from a well known manufacturer with 50+ years of experience
- Deploy an all-fiber network for new builds and network extensions with an architecture compatible with existing backoffice, headend, and CPE systems
- Future proof the network for Gigabit EPON deployments by utilizing the FTTMax™ RFoG Optical Network Unit (ONU) with PON pass through port and DOCSIS Control Interface

Reduce OPEX and System Complexity

- Uses traditional CATV RF headend signal processing and ARRIS headend optics and outside plant product platforms
- Uses traditional CATV STBs, DOCSIS® modems, and VoIP E-MTAs at subscriber premises
- Leverages the traditional HFC optical platform for plant build outs and greenfield applications
- Reduces power and maintenance with an all passive network

Future-proof the Network for Increased Capacity

- Deploy RFoG networks that are compliant with EPON transmission, allowing both to operate on the same fiber
- Utilize the FTTMax RFoG ONU with an optional PON pass through port to provide a migration path for the seamless transition to EPON over the same physical plant
- Provide additional services and add value to the existing infrastructure with CORWave multi wavelength technology for fiber reclamation and fiber repurposing

Rely on Decades of Broadband Expertise

Choosing ARRIS as the provider of choice for RFoG deployments ensures deployment of the most flexible and advanced technology to deliver top notch network services. With a large global customer base and a strong track record of deployed solutions for the cable industry, ARRIS is a trusted resource for RFoG and EPON deployments now and in the future. Choose from a comprehensive, end-to-end portfolio of optical network components for headend, plant, and premises.

High Density

- Used when commercial customers are located close to residential areas
- Provides migration path to EPON with PON pass-through port on RFoG ONU
- Offers a high degree of flexibility for a variety of services

Greenfield

- Provides a selling tool against Telcos and overbuilders for all fiber technology
- Offers a high degree of flexibility for a variety of services

Low Density, Long Distance

- 'Light up' new subscribers easily and quickly
- Leverages passive optical outside plant, and reduces OPEX
- Lowest cost network for rural areas



Growing Businesses



Apartment Complexes



Residential Communities

Optical Platform Network Components



CHP Max5000® Headend Chassis, Power Supply and Element Management—The CHP Max5000 headend chassis supports 10 application modules in a 2RU scalable platform with redundant powering and craft management.



Single and Multi Wavelength Transmitters—Wide variety of high powered C-band Transmitters for RFoG applications, including CORWave II full spectrum 1 GHz multi wavelength transmitters for up to 16 wavelengths on a single fiber, and 1550 nm externally modulated GMOD single wavelength transmitters.



FTTMax™ EPON OLT (Optical Line Terminal)—The FTTMax EPON OLT provides high speed data transmission with two independent 802.3ah compliant Gigabit PON ports and two 1000 base-T uplink ports in a CHP single wide application module.



CHP L2RR Return Receivers—Low noise return receivers are optimized for the very low upstream optical levels typically found in RFoG networks with an ultra low noise, high gain design.



CHP Max EDFA and Trans Max™ RFoG Repeater—CHP Headend EDFA*s and Trans Max RFoG repeaters amplify optical signals to support RFoG architectures beyond 20 km.

*36 port EDFA also available



DWDM Optical Mux/Demux Passives—DWDM optical mux/demux passives and optical splitters are ergonomically designed and support DWDM and CORWave II channel plans.



FTTMax RFoG and EPON—ARRIS provides a variety of RFoG and EPON ONUs to support multiple services.

Outside Plant and Connectivity Supplies



Closures—Wide selection of closures for both indoor and outdoor environments, including MDU (multipldwelling unit), NID (network interface device), dome, low count, in-line, and terminal types.



Aerial Plant Installation Products—Full line of aerial plant construction products including strand, lashing wire, pole line hardware, grounding and bonding, and heatshrink products.



Tools and Test Gear—Extensive line of tools and optical and premises test gear, for trouble-free installation and maintenance.



Safety Equipment—Aerial safety, work area protection, and personal protection products.



Underground Plant Installation Products—Underground construction products including conduit, vaults, pedestals, cabinets, cable blowing and pulling equipment.

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