



CHP Max™ Headend Optics Platform

Forward Path Transmitters

CHP CORWave™ II (CHP Form Factor) 1 GHz C-Band ITU Multi Wavelength Forward Transmitter



Features

- Allows for use of up to 16 full-spectrum ITU wavelengths in the 1550 nm range with 65 km reach (further in an all-digital environment) conserving fiber and providing flexibility for consolidation or elimination of OTNs and node splitting in distant locations
- Supports in headend addition of narrowcast tiers in both analog and digital environments, decreasing system complexity and stranded capital
- Externally modulated transmitters do not require dispersion compensation in redundant architectures and can support repeated amplifications and long links
- Available in:
 - 16 dBm variable output
 - Rear fiber
 - Extended linearized version
 - 10 dBm fixed output
 - Rear fiber
 - Extended linearized version
- Business and residential services can be run over as few as one fiber with no service interruptions caused by optical impairments *
- CORView Element Management System

*By using ARRIS recommended wavelength plan

Product Flyer

In an environment where service and capacity strongly influence success, the ability to quickly - and with minimal disruptions - add capacity to existing networks provides operators with a significant competitive advantage.

Increase Revenue Faster, Reduce CAPEX

The CHP CORWave II 1 GHz C-Band Multi Wavelength Forward Transmitter in the CHP form factor effectively saves cable operators capital that would otherwise be spent on new fiber runs by the ability to multiplex up to 16 ITU full-spectrum wavelengths in the 1550 nm range over as few as one fiber. The CORWave II ITU multi wavelength plan allows new revenue-generating business services to be run alongside residential services if desired. 65 km reach, and beyond in an all-digital environment, provides the flexibility to consolidate or eliminate OTN sites and to split nodes in distant locations for success-based expansion.

Reduce Complexity

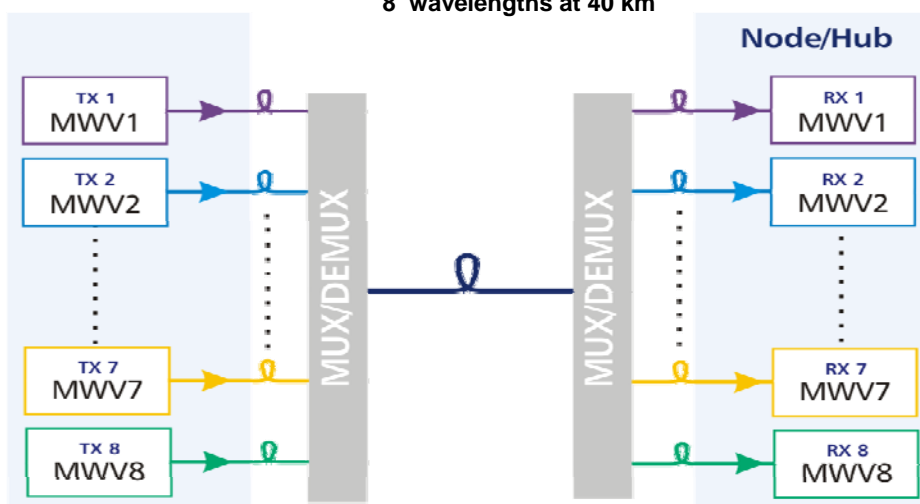
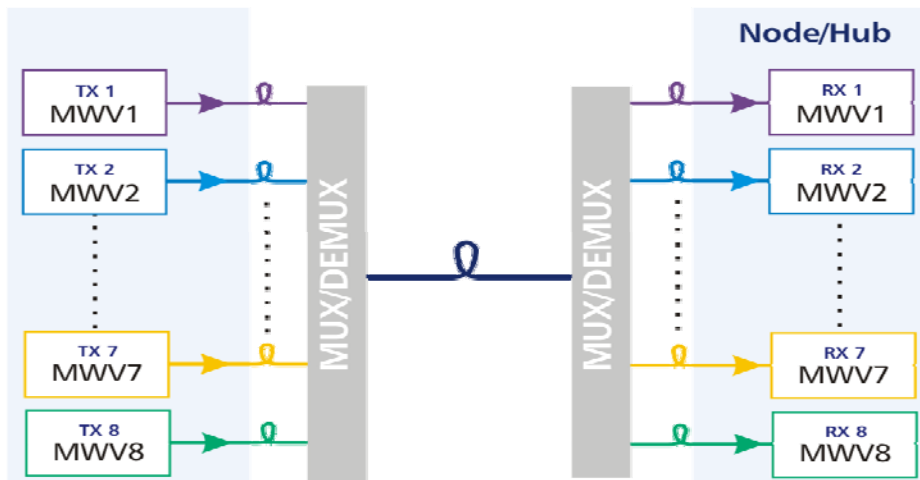
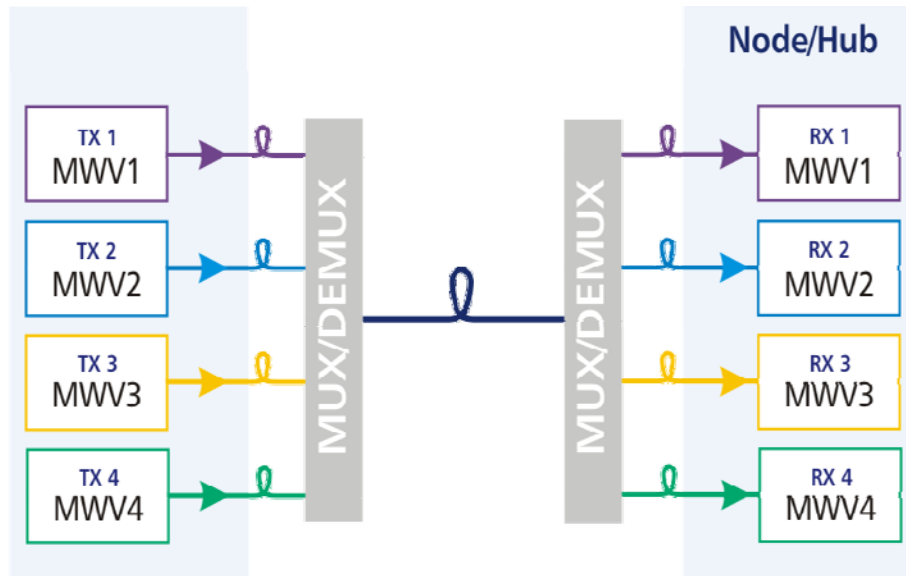
The CHP CORWave II supports full-spectrum broadcast and narrowcast capability at 54 – 1002 MHz, with BC/NC signal combining done in the environmentally controlled headend or hub. This allows narrowcast tiers to be easily added in an analog environment, and protects investment during the migration to all-digital without stranded capital.

Add Value to Existing Assets

A large installed base of the CHP Max5000® Converged Headend Platform allows cable operators to add value to their headends with the addition of the CHP CORWave II for new, revenue generating services and reduced complexity. The CHP CORWave II is rapidly deployable, robust, and scalable, complementing all CHP Max5000 application modules and components, and adding capacity at a cost effective price point. The CHP CORWave II can be monitored by the CORView element management system, which provides an intuitive and user-friendly interface for security, discovery, configuration, and inventory functions.

Applications

The following diagrams depict typical applications for combining four, eight, and 16 CHP CORWave II ITU wavelengths in forward paths that are multiplexed onto a single fiber with a maximum launch power of 11 dBm per wavelength for single to four wavelengths, 10 dBm per wavelength for eight wavelengths per fiber, and 7 dBm per wavelength for 16 wavelengths. This facilitates immediate forward path segmentation and reduces the node service group size. **Follow the implementation requirements listed in the table on the next page to ensure a successful implementation.** Contact ARRIS for implementation details and solutions for other applications.



Implementation Requirements for Content Loading per wavelength

	Per Fiber*	
	54 - 250 MHz	250 MHz - 1 GHz
Analog Content per wavelength	Common content	Common content
Digital Content per wavelength	Common content	Common or Unique content

*** Different fibers may carry different content as long as the above implementation requirements per wavelength are met**

Related Products

ARRIS offers a complete line of CHP CORWave transmitters, Opti Max™ nodes, EDFAs, and optical passives (in both LGX style and splice enclosure packages), supporting 4 x 4, 2 x 4, and 2 x 2 network segmentation.

CHP Max high input level, constant gain EDFAs offer a low noise, scalable optical amplification solution with integrated element management and are designed for use with CORWave II transmitters.

www.arrisi.com

Find more information about the CHP CORWave™ II Multi Wavelength Forward Transmitters.

- Product Specifications—CHP CORWave™ II (CHP Form Factor) Multi Wavelength Forward Transmitters Technical Specifications (Publication Code: CHPCORWAVE2_TS.pdf)

Customer Care

Contact Customer Care for product information and sales

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