



1 GHz CWDM Forward Path Transmitters

(CHP-GFXx-1xxx)
CHP Max5000™



- ITU G.695 compliant for CWDM spacing
- 1GHz technology
- Improves existing fiber utilization
- Revolutionary variable optical output
- Dual high isolation input
- Low profile footprint allows 200 transmitters in a standard rack
- Universal local or remote management through Craft interface and SNMP with HMS

The ARRIS CHP Max5000 Advanced 1GHz CWDM Transmitter is ideal for MSOs that need to support growing residential and business services on a fiber-scarce HFC plant. The ITU G.695 standards-based CWDM transmitter is available at a wavelength of $1311 \pm 4\text{nm}$ with variable output power levels of 4, 6, 8, 10, or 12dBm and with fixed output levels of 13,14, and 15dBm. This transmitter is also available at a wavelength of $1291 \pm 4\text{nm}$ with a variable output with a maximum power of 8 dBm. By deploying 1311nm CWDM transmitters, the adjacent ITU channel at 1291nm can be used in CWDM applications to increase the existing capacity of the HFC networks.

CHP Max5000 1 GHz CWDM transmitters enable customers to support rapidly growing residential and business services while leveraging existing network infrastructure and provides the capability to multiplex two forward wavelengths on a single fiber. In many cases, multiple return wavelengths can also be carried on the same fiber.

CHP Max5000 1 GHz CWDM transmitter's variable optical output power range enables operators to reduce spare inventory up to 60 percent, reduce the need for optical attenuators, and adjusted for unexpected link loss during system implementation. These benefits translate into significant CapEx and OpEx savings, and provide maximum flexibility for deploying advanced interactive services. The 1 GHz Transmitter's dual-input capability provides isolation that is much superior to alternative offerings, enabling simultaneous advanced service deployment of video and telephony. In addition, integral high isolation eliminates having to add external devices to achieve similar performance, thereby lowering CapEx even further and reducing system complexity.

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CHP Max5000 1 GHz transmitters are dual-input, hot-swappable transmitters with integrated management through the local Craft GUI and remote management via SNMP HMS-compliant interface for external connection to an element manager.

Features

- Leverages existing network infrastructure and provides the capability to multiplex two forward wavelengths on a single fiber
- ITU G.695 standards compliant
- Variable optical output power range for spare inventory reduction and flexibility to adjust for unexpected link loss during system implementation
- Superior performance to facilitate 256-QAM digital channel transmission capability
- Plug-in equalizer and attenuators for RF gain control and front panel RF testpoint for convenient monitoring
- Downloadable firmware upgrades

Applications

The following diagram depicts the typical application for combining two CWDM wavelengths in the forward paths that are multiplexed onto a single fiber with a maximum launch power of 7 dBm per wavelength (two wavelengths). The first CWDM wavelength that should be deployed is 1311nm. This facilitates immediate forward path segmentation and reduces the customers served by a node in half. Follow the implementation requirements listed in the table below to ensure a successful implementation. Contact ARRIS for implementation details and solutions for other applications.

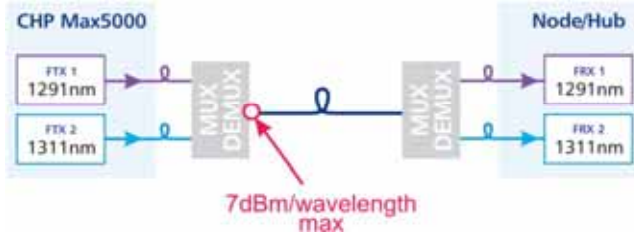


Diagram 1. 1291 and 1311 nm CWDM forward path implementation

www.arrisi.com

Find more information about the 1 GHz CWDM Forward Path Transmitters (CHP-GFXx-1xxx) CHP Max5000.

- 1 GHz CWDM Forward Path Transmitters (CHP-GFXx-1xxx) CHP Max5000 Technical Specifications (Publication Code: CHPGFXxCWDM_TS.pdf)

Customer Care

Contact Customer Care for product information and sales

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