



1 GHz 3-Input Forward Path RF Amplifier

(CHP-GAMP3)
CHP Max5000™



- 1 GHz technology
- One broadcast and two narrowcast RF inputs
- Broadcast and narrowcast gains are GUI adjustable
- Tunable equalization for broadcast input
- Reduced signal combining and cable wiring complexity
- Low profile footprint allows 200 amplifiers in a standard rack
- Universal local or remote management through Craft interface and SNMP with HMS

The ARRIS CHP Max5000 1 GHz 3-Input Forward Path RF Amplifier is a hot-swappable module that can be used as a key system component in a headend or hub environment to provide RF signal amplification and narrowcast layering. The innovative 3 RF inputs, 1 broadcast and 2 narrowcast, support layered services such as SDV, VOD, and HSD. This amplifier is designed to provide system operators a low cost way to overcome network losses, with minimal degradation to system performance, caused by combining and splitting networks that are typically found in HFC headends/hubs.

Up to 10 CHP Max5000 amplifiers can reside in the 2RU CHP Max5000 chassis, with one broadcast RF input, two narrowcast RF inputs, and one RF output connector access on the rear panel. A front panel RF testpoint provides a sample of the RF output, reduced by 20 dB.

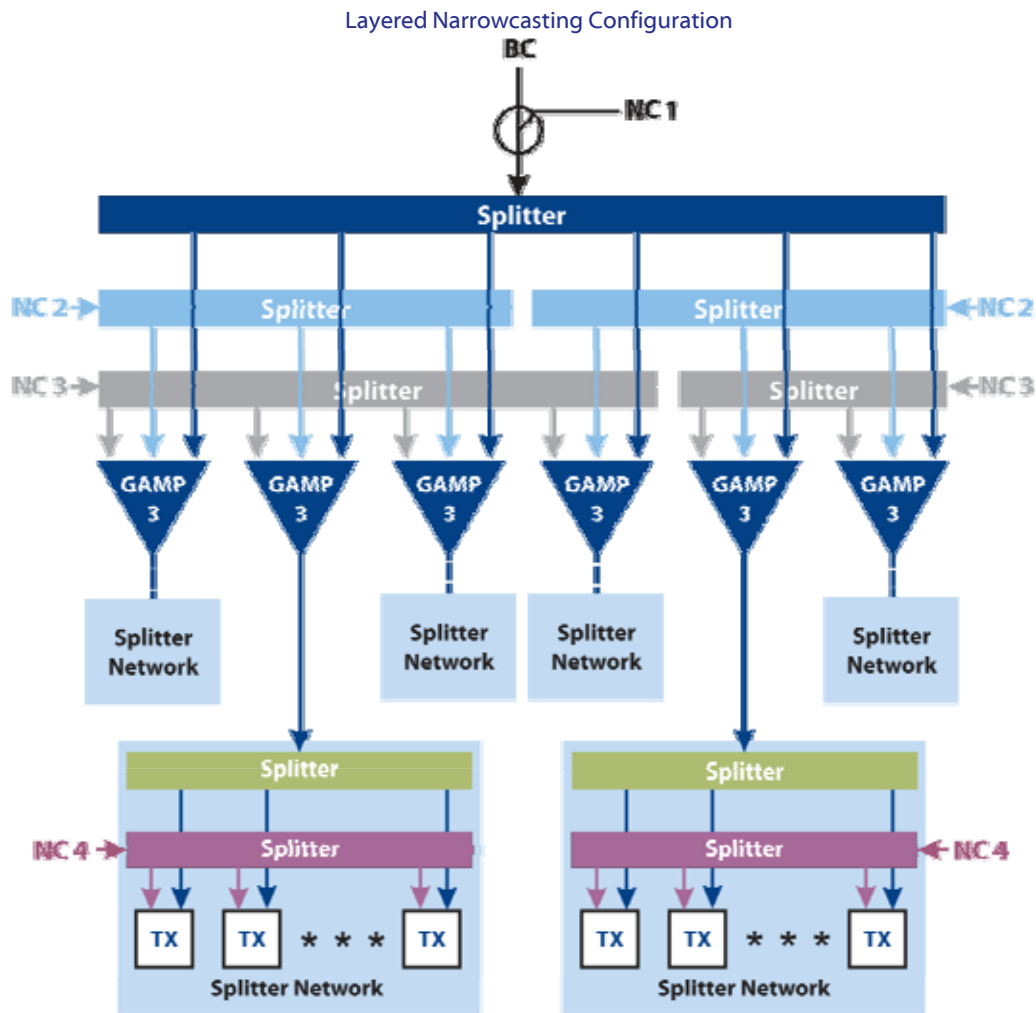
Features

- 1 GHz single output with forward passband of 50 to 1002 MHz
- The maximum gain for the broadcast (BC) port is 20 dB, the narrowcast (NC) ports are 10 dB
- In-service tunable equalization of the broadcast input within the Craft GUI monitoring system reduces setup time and increases control
- 1 broadcast input and 2 narrowcast inputs supports layered narrowcast service implementation, such as SDV, VOD, and HSD
- Superior CNR and distortion performance
- BC port gain adjustable from 14 to 20 dB in 0.25 dB steps via Craft GUI or SNMP
- NC port gain is 13 dB less than BC gain with an adjustment range of ± 3 dB in 0.25 dB steps
- Superior reverse port-to-port isolation enables the combination of multiple narrowcast sources to reduce external signal combining and simplify cable wiring.
- Front-panel RF output testpoint for convenient monitoring
- Low profile footprint allows 10 amplifiers in a shelf

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Application

In this layered narrowcasting configuration, a single broadcast signal combines with a narrowcast signal and 2 additional narrowcast signals are split into 6 CHP Max5000 3-input RF Amplifiers. The 3 RF inputs, 1 broadcast and 2 narrowcast, support layered services such as SDV, VOD, and HSD. The amplifiers providing signal to the network are a low cost way to overcome network losses, with minimal degradation to system performance, caused by combining and splitting networks that are typically found in HFC headends/hubs.



www.arrisi.com—Find more information about the 1GHz 3-Input Forward Path RF Amplifier CHP-GAMP3 CHP Max5000:

- 1GHz 3-Input Forward Path RF Amplifier CHP-GAMP3 CHP Max5000 Technical Specifications (Publication Code: CHPGAMP3_TS.pdf)

Customer Care—Contact Customer Care for product information and sales

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