



## Flex Max®

### Flex Max321 1GHz Line Extender



- Uses common legacy style equalizers and attenuators with guide pins
- Offers easy conversion path from manual level control to thermal or ALC via field accessible plug-ins

The new Flex Max321 Line Extenders are designed to effectively extend a system or build new architecture when customers want or need a high output, very compact 1GHz amplifier. It is also developed with customers requirements in mind for a way to upgrade legacy 7-LH and 9-LH style housings to a 1GHz architecture with minimal re-spacing via a cost effective drop-in module.

The Flex Max321 Line Extenders provide excellent forward and return path performance in a compact end-of-line solution. Flex Max321 Line Extenders amplify RF signals and provide slope and gain control for unity gain in both forward and return paths. The return path circuitry, installed on the PC board, uses a hybrid amplifier with an improved compression point and bit error rate (BER) for digitally loaded traffic over a discrete amplifier design.

#### Features

- Available in 36 dB with manual level control and 33 dB versions which may be configured with a single-pilot ALC to maintain forward levels as temperature changes cable attenuation or with a thermal level control
- QAM Pilot frequency available at 609.00, 645.00, or 711.00 MHz or legacy analog pilot frequency available at 423.25, 427.25, or 499.25MHz
- Directional coupler forward output and return input testpoints isolates forward output and return input signals from the effects of reflections in the cable
- On the return output, an attenuator and an equalizer circuit controlled by a plug-in attenuator allow for accurate return path alignment (return test signals can be injected at the forward output testpoint)

# Flex Max321 1GHz Line Extender

[www.arrisi.com](http://www.arrisi.com)

Find more information about the Flex Max321 1GHz Line Extender.

- Product Specifications—Flex Max321 1GHz Line Extender Technical Specifications (Publication Code: FM321\_TS.pdf)

## Customer Care

Contact Customer Care for product information and sales

- United States: 866-36-ARRIS
- International: +1-678-473-5656

---

The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice. ARRIS, the ARRIS logo, Auspice®, C3™, C4®, C4c™, Cadant®, C-COR®, CHP Max®, ConvergeMedia™, Cornerstone®, CXM™, D5™, Digicon®, Flex Max®, Keystone™, MONARCH®, n5™, nABLE™, nVision®, OpsLogic®, OpsLogic® Service Visibility Portal™, PLEXIS®, PowerSense™, Regal®, ServAssure™, Service Visibility Portal™, TeleWire Supply®, TLX®, Touchstone®, VoiceAssure™, VSM™, and WorkAssure™ are all trademarks of ARRIS Group, Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. © Copyright 2009 ARRIS Group, Inc. All rights reserved. Reproduction in any manner whatsoever without the express written permission of ARRIS Group, Inc. is strictly forbidden. For more information, contact ARRIS.



[www.arrisi.com](http://www.arrisi.com)