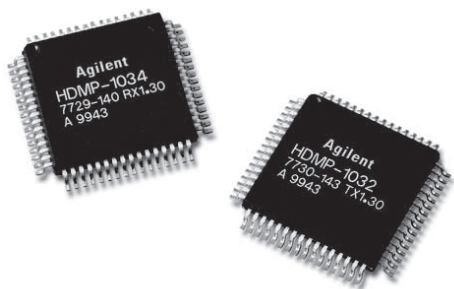# Agilent Technologies
G-Link
Product Overview

Agilent Technologies is a world-class supplier of integrated circuits, including transmitter/ receiver chips with state-of-art technology. Agilent has a breadth of 1–2.5 Gb/s products including optical transceivers, SerDes ICs, port bypass circuits, and Gigabit Link Modules and is also a recognized leader for protocol chips.

Agilent's G-Link products are excellent solutions for high-speed point-to-point and point-to-multi-point voice, data and video communications. G-Link chipsets provide the fastest way to get data from point A to point B if protocol is not the major driver.

About the Product

The G-Link chip set hides from the user all the complexity of encoding, multiplexing, clock extraction, de-multiplexing and decoding. From the user's viewpoint, these products can be thought of as providing a "virtual ribbon cable" interface for the transmission of data. G-Link chips provide the fastest way to get data from point A to point B, independent of protocol.

- HDMP-102X & HDMP-103X
- Flexible operating frequency
- On-chip link management including encode/decode

Product Features and Benefits

- **Virtual ribbon cable replacement**

- **Excellent signal integrity**
  - Differential BLL serial I/O with on-chip source termination

- **On-chip link management, including encode/decode**

- **High speed serial rate**
  - 150 to 1500 MBaud (user selectable)

- **Standard TTL or LVTTL interface**

- **Implemented in a low cost package**
  - Plastic 14x14 mm^2 PQFP 64 pin
  - Aluminum M-Quad 80 package

- **World Class manufacturing facilities**
  - Manufactured in ISO 9001 facilities

- **Flexible volume solution**
  - Low cost, high reliability and quality

- **Compatible with automated PCBA assembly processes**
  - Wave solder compatible

- **Simplifies customer's design process**
  - Worldwide application support
  - Fewer components needed

Typical Applications

- **Base stations**
- **Backplane serialization/bus extender**
- **Video, image acquisition**
- **Point to point data link**
- **Implement SCI-FI standard**

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Product Selection Guide

G-link Part Number	Data Rates (MBaud)	Parallel Data Bits	Parallel I/O	Tx/Rx	Package Type
HDMP-1032A	260 – 1400	16, 17	LVTTL	Tx	64 pin PQFP
HDMP-1034A	260 – 1400	16, 17	LVTTL	Rx	64 pin PQFP
HDMP-1022	150 – 1500	16, 17, 20, 21	TTL	Tx	80 pin MQUAD
HDMP-1024	150 – 1500	16, 17, 20, 21	TTL	Rx	80 pin MQUAD

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