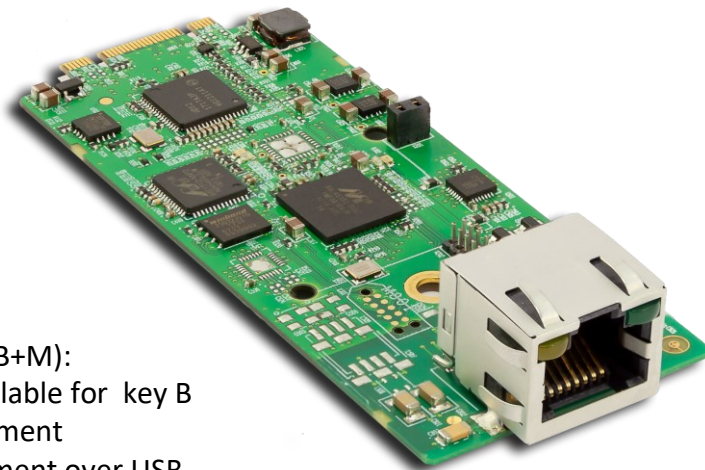# G.hn / G.now
GHN.M2

teleconnect

G.hn/G.now Applications and Benefits

Research shows that customers will require multiple types of networks to enable all their devices to communicate with one another inside the home and industry. Today, no single technology can suitably address all these applications and devices. G.hn/G.now is the technology to make it possible. G.hn/G.now works over any wire in the home, including power lines, phone lines, coax cable for TVs and optical fiber. The technology is standardized by ITU-T G.9960 - 9964.

Software Services and Features

- IEEE 802.1d transparent bridge
- G.hn: ITU-T G.9960/ 9961/ 9962/ 9964
- Ethernet: IEEE 802.3/ 802.1p/ 802.1q
- IGMP v2, v3 Snooping
- Support 802.1p pbit and DSCP mapping
- VLAN Tag Add/Removal/Translation
- Management via Webinterface or custom config tool
- Features depending on M.2 connector type (B+M):
  - Core functionality at the PCIe lane 0 (available for key B and key M) for data and in-band management
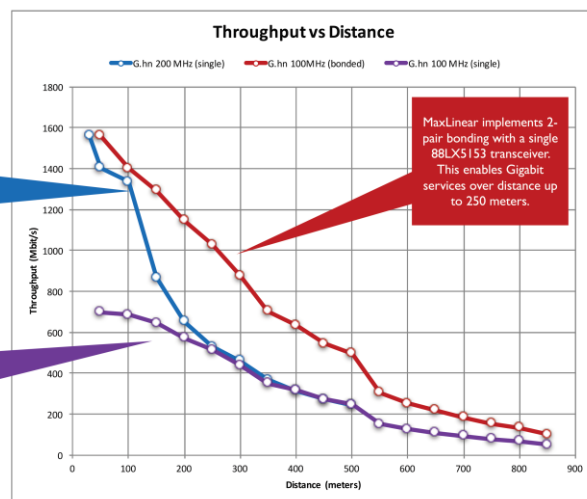 - Additional function out-of-band management over USB (only for key B)

G.hn/G.now Transparent Bridge

- G.hn/G.now phone line uplink port with a maximum rate of 1.7 Gbps
- Best suited for industrial networking, more reliable and faster than conventional wireless networking
- Signal quality indication
- Status and statistics of Ethernet Interface
- Fully transparent bridge for G.hn/ G.now, to enable routing on host
- Made for universal enterprise CPE / IAD /Gateway / Router / PC / White Box CPE

Throughput/Distance of G.hn chipset from MaxLinear, standard twisted copper pair phone cables (Source: M. C. Gomez, "EVALUATING THE IMPACT OF 10G ON NEXT-GENERATION FTTDP NETWORKS," 2017)

Engineering Services/ Project Support

- Hard- and software customization
- Attractive pricing for software services
- System integration and adaptation
- Performance and compliance testing

More engineering services, software features and options on request!

Technology contribution from **MaxLinear**

G.hn / G.now
GHN.M2

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Specifications

Dimensions (L x W x H)	85 x 35 x 15 mm
Weight	20 g
Connector	M.2; 1x RJ45 for G.hn/G.now
M.2 connector	B and/or M
G.hn chipset	Wave-2
Supported standards	G.hn/G.now: ITU-T G.9960/9961/9962/9964; Ethernet: IEEE 802.3/802.1p/802.1q
Connection	PCIe via M.2 (one lane)
User interfaces	Webinterface, custom config tool
Protection	subject to open discussion
Temperature range	0°C - 70°C