



G.hn Home Networking Product Introduction

- Presented By
- Comtrend
- Q1 2021 with Trustra Co., Ltd

G.hn Product Roadmap

COAXIAL CABLES



PHY rate up to 1 Gbit/s
NET rate up to 0.8 Gbit/s



PHY rate up to 2 Gbit/s
NET rate up to 1.7 Gbit/s

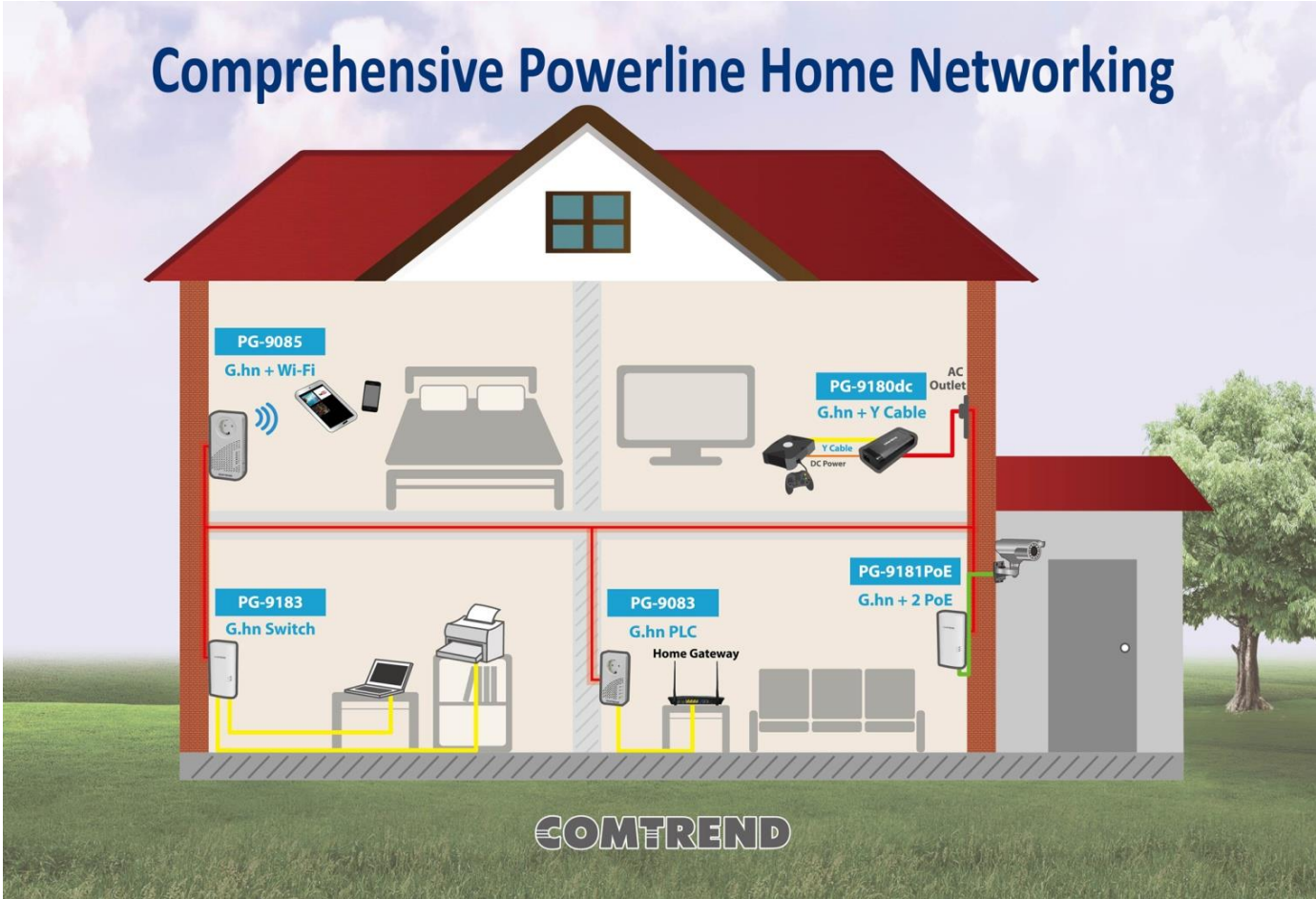
POWER LINE

PHY rate up to 1 Gbit/s
NET rate up to 0.5 Gbit/s



PHY rate up to 1.5 Gbit/s
NET rate up to 1.0 Gbit/s

Comprehensive Powerline Home Networking

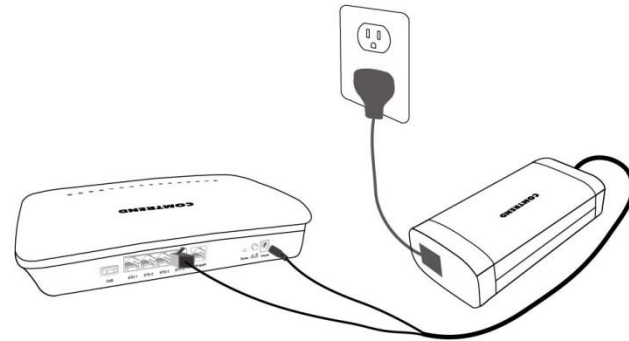


G.hn Y-Cable

PG-9180dc

G.hn wave 2 Adapter

- ▶ Equip / upgrade router with PLC availability
- ▶ Provide Y cable for both Power & Giga Ethernet
- ▶ 12V / 2.5A could fit majority of the gateways
- ▶ [Availability of MP Samples: Aug](#)



G.hn + PoE Product Family

PG-9181PoE

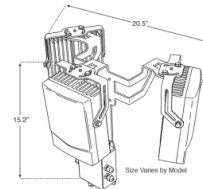
G.hn wave 2 + PoE



- ▶ Two gigabit Ethernet ports
- ▶ Total PoE output capability of 30W (IEEE 802.3at)
- ▶ Smart selection of IEEE802.3at @LAN1 or IEEE802.3af @LAN1&2
- ▶ [Availability of MP Samples: Aug](#)

G.hn + PoE model comparison

Model	PoE Standard	G.hn	Power PSE
PG-9172PoE	802.3af	Wave 1	15.4W
PG-9181PoE	802.3at	Wave 2	30W



Outdoor AP with Heater
High power 11ac AP



PoE IP camera

G.hn switch

PG-9183

G.hn wave 2 + 4 x Gigabit Ethernet



Four Gigabit Ethernet ports



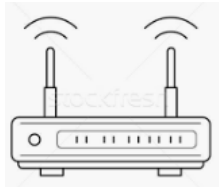
No external Gigabit Ethernet switch is required



Local 4 ports could provide up to Gigabit per second.



Availability of MP Samples: Now US specs (Replaced plug for EU specs if required)



Wireless AP



Printer Server



NAS Server

PLC Product Roadmap – G.hn PLC wave1

- Available
- In Development
- In Plan

G.hn + 802.11ac Wi-Fi



PG-9072 G.hn Wave 1

- Maxlinear 88LX3142+88LX2718
- Celeno CL1860 +CL2200 802.11ac 2x2
- LAN – 10/100/1000 x1



G.hn Desktop

PG-9074 G.hn Wave 1

- Maxlinear 88LX3142+88LX2718
- Celeno CL1860 +CL2200 802.11ac 2x2
- LAN – 10/100/1000 x1
- Desktop w/ AC cord (Changeable)

G.hn + PoE output



PG-9172PoE G.hn Wave 1

- Maxlinear 88LX3142+88LX2718
- IEEE 802.3af / 44-57Vdc/15W
- LAN – 10/100 x1
- EU / US

G.hn Basis



PG-9073 G.hn Wave 1

- Maxlinear 88LX3142+88LX2718
- Power pass through
- LAN – 10/100/1000 x1

Now

Product Discussion – G.hn PLC (wave2)

- Available
- In Development
- In Plan

+ Wireless



G.hn Wave 2 + 802.11ac Wi-Fi

PG-9082

- Maxlinear LX5152+LX2720
- Celeno CL1860 +CL2200
- LAN – 10/100/1000 x1
- EU / US / UK
- Harmony Ready

+ Power



G.hn 802.3at PoE Switch

PG-9181PoE

- Maxlinear LX5152+LX2720
- IEEE 802.3at
- 30W total power budget
- LAN – 10/100/1000 x2



G.hn 4 port Switch

PG-9183

- Maxlinear LX5152+LX2720
- LAN – 10/100/1000 x4
- EU / US



G.hn Wave 2 Basis

PG-9083

- Maxlinear LX5152+LX2720
- Power pass through
- LAN – 10/100/1000 x1
- EU / US

Basic



G.hn Wave 2 + 802.11ac Wave 2

PG-9085

- Maxlinear LX5152+LX2720
- Realtek 8197F + 8812HB
- LAN – 10/100/1000 x1
- EU

G.hn Adapter for Ethernet and DC power

PG-9180dc

- Maxlinear LX5152+LX2720
- 12Vdc/2.5A dc output
- LAN – 10/100/1000 x1
- Power Adapter ID Design



Now

Q3-2021

G.hn Coaxial Product

- Available
- In Development
- In Plan



4 port G.EOC G.hn over coax Outdoor DPU MDU-4620

- BCM55045
- 88LX5153 x4 + 88LX2741 x4
- 1 x GPON ONU
- 4 x G.hn wave2 over coax CO Port
- AC Input
- LAN port for local configuration
- 0°C ~ +45°C

G.hn wave 2 over Coax Gateway



GCA-6012

- Maxlinear 88LX3153+ 88LX2730
- F-type connector x 2
- LAN – 10/100/1000 x 2
- LAN as WAN w/Router functions
- Built-in Diplexer
- Realtek RTL8197FS + RTL8812BRH
- 11ac, 2T2R, MU-MIMO

G.hn over Coax Adapter



GCA-6010

- MaxLinear 88LX5153 DBB
- MaxLinear 88LX2730 AFE
- F-Connector x2
- LAN – 10/100/1000 x 1
- Built-in Diplexer

G.hn DPU

G.hn CPE Wireless

G.hn CPE Basic

Now



COMTREN

THANK YOU FOR
YOUR TIME