

OVERVIEW

Pulse~LINK's Ethernet-over-coax Bridge enables broadband access throughout the customer premise by bridging Ethernet traffic over existing coax wiring. Based on Pulse~LINK's PL3100 chipset, CWave® Pro supports Triple Play with QoS and up to 8 nodes per network. With double the throughput of alternate EoC technologies, CWave® represents today's optimum solution for extending network services into homes, MDUs, hotels, schools and offices.

With demand for broadband services exploding, service providers and installers are under increasing pressure to satisfy customer needs. Cable and fiber companies can deliver impressive speeds to modems and Optical Network Terminals (ONT) yet broadband distribution remains challenging. Ethernet (Cat5/6) wiring is expensive to install and Wi-Fi's throughput drops rapidly with range, resulting in poor quality video or buffering.

CWave® technology offers an alternative solution for buildings wired with coax and peacefully coexists with existing services, including satellite TV. Simply connect a broadband router to the CWave® Pro's Gigabit Ethernet port and a coaxial cable from the unit's F-connector to a nearby wall outlet. CWave® will take care of the rest. Any room with a cable TV outlet now has access to rock-solid HD video by connecting another CWave® Pro.



KEY FEATURES

- Aggregate Network Bandwidth 400+ Mbps with individual network nodes capable of up to 320 Mbps
- No new wires – works over existing coax cables and splitters
- Supports point-to-multipoint topology
- Frequency range of 3.3 - 4.7 GHz
- Guaranteed QoS for Video, Voice or Data applications
- Plug and Play
- Coexists with DOCSIS, Cable and Satellite services
- Triple Play with QoS access to any coax outlet

APPLICATIONS

- Extend FTTH installations from ONT into customer premise over existing coax
- Distribute broadband or Triple Play services in:
 - * Homes and Apartments
 - * MDUs
 - * Hotels
 - * Schools
 - * Offices
- Upgrade analog CCTV systems to digital IP video
- Capable of supporting multiple Standard & High-Definition IP video cameras

KEY COMPONENTS

- Pulse-LINK PL3100 CWave® Chipset
- Gigabit Ethernet Interface
- 4-Port 100 Mbps Ethernet Switch
- Two 75 Ω F-type Coaxial Connectors
- Low cost, small form factor


SPECIFICATIONS

Frequency	3.3 – 4.7 GHz
Raw Data Rate	1,350 Mbps (1.35 Gbps)
Application Data Rate	Up to 320 Mbps Bi-directional Combined
Operating Temperature, Storage Temperature	0° C to -40° C, -5° C to -65° C
Input Voltage, Power Consumption	12V DC @ 1.5A, External Power Supply: 12V DC
Humidity	10% to ~90% Non-condensing
Certifications	FCC Part-15 Class B
RF Interface	Two Coax Connectors F-type Impedance: 75 Ω
Ethernet Interface	One Gigabit Port, Four 10/100 Ports
Protocol Layer	Based on IEEE 802.15.3b MAC. Standard Guaranteed QoS
Dimensions, Weight	6.0”(L) x 4.75”(W) x 1.75”(H), (152.5 mm x 120.6 mm x 44.5 mm), 1.06 lbs. (480.8 grams)

ORDERING INFORMATION

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DAK1	Ethernet-over-coax Bridge Unit
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About Pulse~LINK

Pulse-LINK, Inc. is a fabless semiconductor company with more than 300 issued and pending telecommunication patents. Headquartered in Carlsbad, California, Pulse-LINK is the inventor of CWave®, an innovative, simple digital RF architecture enabling high data-rate home networking over coax.