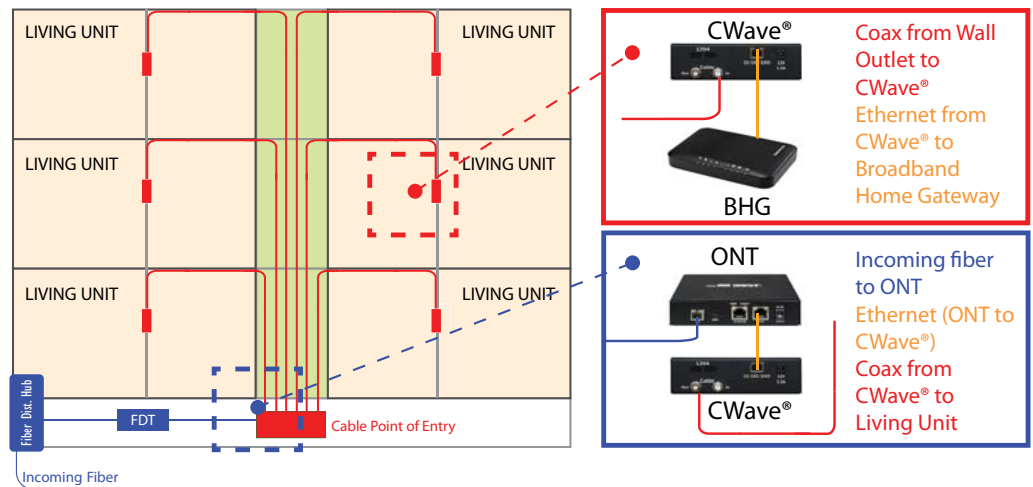## OVERVIEW

CWave® Pro For FTTH, CATV & Satellite is an Ethernet-over-coax (EoC) solution enabling MSOs and installers to extend coverage from the Point of Entry (PoE) to multiple rooms or offices. Most homes and apartment buildings can leverage existing Cable TV wiring by using CWave® Pro to delivery Triple Play services to any room with a TV wall outlet.

CWave® Pro peacefully coexists with legacy coax services, including digital & analog cable TV channels, DOCSIS, MoCA and Satellite. No other Ethernet-over-coax technology offers the flexibility, ease-of-install and data throughput of CWave®.

Several MDU install scenarios are possible. The diagram opposite shows an apartment building with existing coax feeds from the PoE to each living unit. This topology suits the positioning of a Fiber Distribution Terminal (FDT) at the Cable PoE. Each living unit can be served by individual ONTs connected by two CWave® units to the coax end-point. CWave® Pro can deliver 320 Mbs of throughput over this point-to-point connection.

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
- Gigabit Ethernet Interface
- 4-Port 100 Mbps Ethernet Switch

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

CWave®
SIMPLIFY - LIBERATE - CONNECT

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

sales@pulselink.com   760.496.2136   www.pulselink.com
1934 Kellogg Avenue   Carlsbad,   California   92008   USA

DAK1	Ethernet-over-coax Bridge Unit

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.