

Service Provider: MDU Application

DPU-4640

G.hn Over Coax Distribution Point Unit (DPU)

Coaxial DPU SFP (Head-End)

G.hn Wave 2 over Coaxial | SFP | Gigabit Ethernet WAN

Comtrend's G.hn Coax DPU is a coaxial headend device with a flexible SFP/Gigabit Ethernet uplink hybrid solution designed to unlock gigabit broadband for Multi-Dwelling Units (MDUs).

- **Cost-Effective Fiber Alternative** – Delivers near-symmetrical Gigabit services without the high costs and complexity of fiber retrofits.
- **Leverages Existing Coax Infrastructure** – Avoids disruptive construction while maximizing deployment efficiency.
- **Designed for MDUs** – Ideal for brownfield Multi-Dwelling Units (MDUs), providing a scalable broadband solution.



The DPU-4640 creates a coax-based distribution network, providing a cost-effective alternative to fiber installs. It includes an SFP cage for versatile uplink options. It supports G.hn end point devices like the Comtrend CPE-7000 and residential gateways with G.hn or SFP ports for flexible deployment. As part of a G.hn over coax ecosystem, its head-end supports up to 16 devices, enabling efficient MDU upgrades without costly fiber retrofits.

KEY BENEFITS



Access Locked Markets: Tap into previously inaccessible MDU markets with a cost-effective solution.



Cost Efficiency: Avoid high costs associated with fiber rewiring by utilizing existing coaxial cabling.



Seamless Deployment: Purpose-built for fast installation with minimal disruption.



Scalable Network Evolution: Complement DPU deployments with OpenPON and cost-effective fiber solutions for future growth.

DPU-4640

Key Features



G.hn Wave 2
Technology



Supports up to
16 Devices



Delivers up to
1.7Gbps



Gigabit SFP
Port WAN



TR-069 Remote
Management

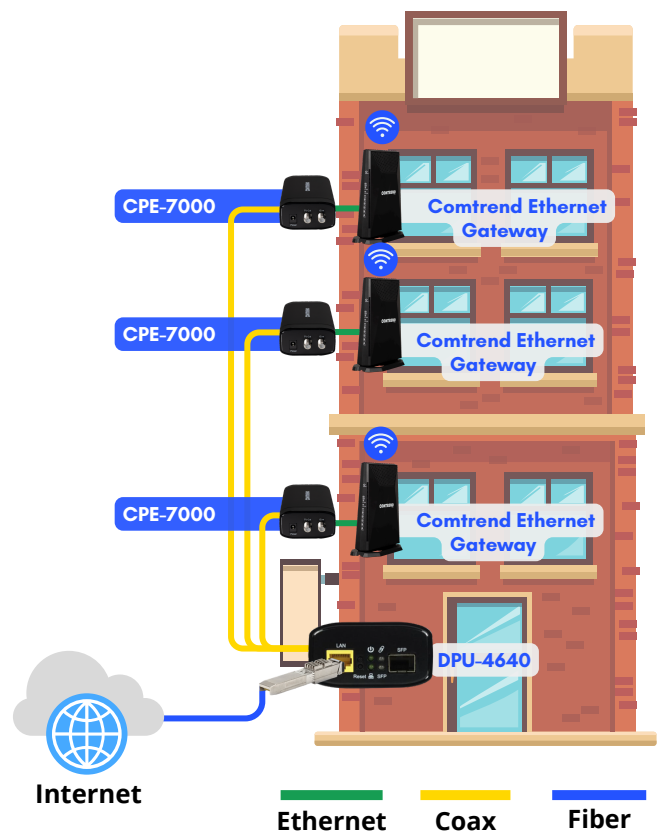


Gigabit Ethernet
WAN/LAN

Specifications

Hardware	
Ports	1x Port F-connector (G.hn) 1x Port F-Connector (TV Out) 1x Gigabit Ethernet WAN/LAN 1x Gigabit SFP Port WAN
LED Indicators	Power, LAN, (G.hn) Link
Power Input	DC 12V/1A
Dimensions	133mm (D) x 70mm (W) x 38mm (H)
Uplink	
Gigabit Ethernet (RJ-45)	Integrated
Gigabit SFP	Integrated
G.hn Wave 2 Master	
Standards	Supports ITU-T G.9960/9961/9962/9963/9964 Unified high-speed wireline-based home networking transceivers
Environment	
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	10% ~ 90% non-condensing
Software	
Features	<ul style="list-style-type: none"> Supports Upstream/Downstream bandwidth configuration Supports DHCP client, Fixed IP setting, IPv6 passthrough, C-TAG VLAN, Management VLAN, Syslog, SNTP client, Multicasting Supports Web GUI as friendly management Interface TR-069 for remote management
Certifications	CE, FCC, UL / cUL, ITU-T G.hn Standard

Application Diagram: Small MDU



Note: Up to 16 nodes can be used.



CE Standards:

EN 55032 / EN 55035 EN
62368-1 (Includes ErP)

FCC / IC Standards:

FCC Part15B / ICES-003
UL 62368-1 / cUL62368-1