G.hn over Coax Head End 4 ports
Distribution Point Unit

G.hn wave2 over coaxial **|** SFP+ Uplink

MDU-4620

The **MDU-4620** is a revolutionary G.hn wave2 over coaxial cable Head End with a multiple purpose uplink/coaxial hybrid approach to provide the broadband service under the current coaxial cable network to the cable TV subscriber.

The MDU-4620 design meets the requirement to be located in a building basement, the stairway of an apartment building or inside the FTTC cabinet.

As a G.hn wave2 over coax HE (Head End) the MDU-4620 includes an SFP+ cage as the uplink interface (for GPON/XGS-PON network as an ONU, or 10G AE/10GBase-T Ethernet) and 4 ports G.hn wave2 over coaxial interfaces. Combining the Fiber/Ethernet, coaxial cable and broadband technologies the MDU-4620 system supports 3 kinds of applications to serve a maximum 64 end users thru single, dual or quad coaxial cables for multiple HDTV, Internet Gaming & other high bandwidth applications. In addition, the MDU-4620 can co-exist with the Cable TV program service.

KEY FEATURES

- **G.hn wave2 over coaxial** cable technology
- One MDU-4620 connects to **64 units** G.hn over coaxial wave2 CPEs
- **3** types of connection to CPEs via **Single, Dual or Quad** coaxial cables
- Max. **1.7Gbps** Aggregated Broadband service
- **Auto** configuration
- **Web GUI** for friendly and easy operation network management
- Supports **SNMP** for remote network management
- Value added Broadband service over current **CATV** network
- Uplink interface complies with **XGS-PON ONU/GPON ONU/ 10G AE/ 1G AE/10GBase-T/1GBase-T**

MDU-4620

G.hn wave2 over coaxial **|** SFP+ Uplink

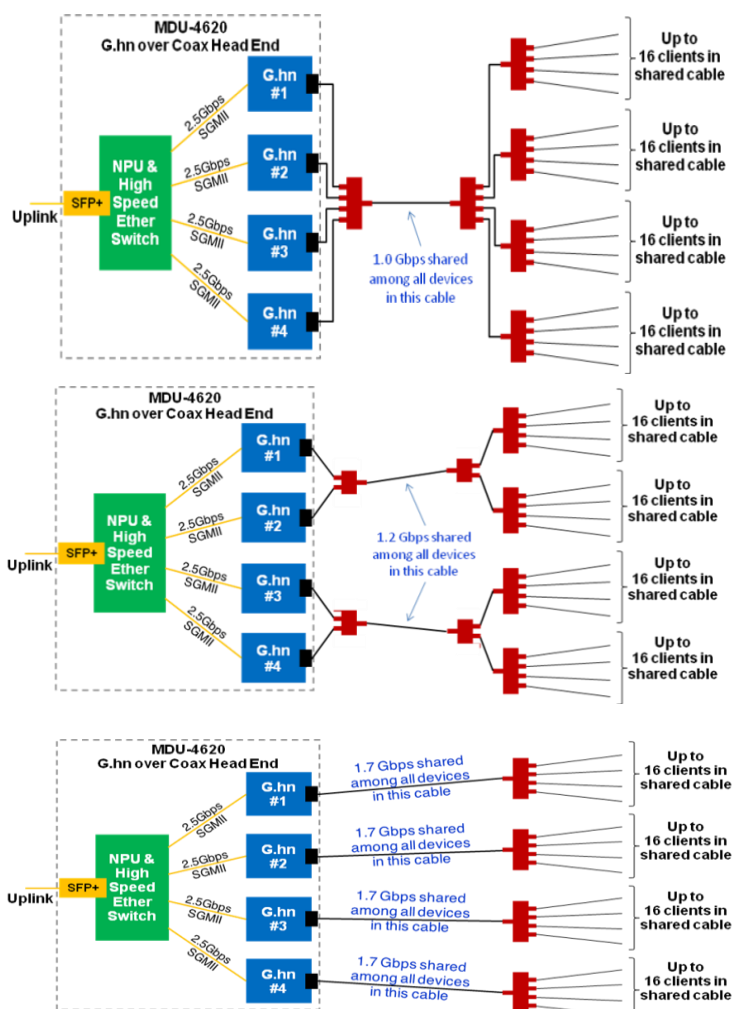| SPECIFICATIONS	
Hardware	▪ 1x SFP+ Uplink (for GPON ONU as default, XGS-PON ONU/10 AE/10Gbase-T Ethernet are optional) ▪ 4x F-connector (for G.hn wave2 broadband & CATV out) ▪ 4x F-connector (for CATV input) ▪ AC Input (full range, 50/60Hz)
Fiber Uplink	▪ 10G AE IEEE 802.3ae base-LR/LW ▪ GPON/XGS-PON Compliant ITU-T G.984.1. G.984.2, G.984.3 Standard Supports ITU-T G.988 OMCI Class B+ Compliant Optical Transceiver Line rate GPON 2.5Gbps Downstream, 1.25Gbps Upstream Line rate XGS-PON 10Gbps Downstream, 10Gbps Upstream Max. 20KM Distance Reach thru ITU-T G.652 Compliant Single Mode Fiber AES-128 Decryption with key generation and switching FEC (Forward Error Correction) Supported Flexible mapping between GEM ports and T-CONTs Mapping of GEM port into a T-CONT with priority queues based scheduling DBA reporting in status indications in the PLOu, and by piggyback reports in the DBRu (mode 0) 802.1p service mapping profile on U/S
Mechanical	▪ IP67 waterproof, dust proof outdoor housing ▪ No fan cooling, Anti-dust, Bug-proof ▪ Dimensions: 265mm x 220mm x 80mm
G.hn	▪ Supports ITU-T G.9960: Unified high-speed wireline-based home networking transceivers – System Architecture and Physical Layer specification ▪ Supports ITU-T G.9961: Unified high-speed wireline-based home networking transceivers – Data Link Layer specification ▪ Supports ITU-T G.9962: Unified high-speed wireline-based home networking transceivers – Management specification ▪ Supports ITU-T G.9963: Unified high-speed wireline-based home networking transceivers – Multiple input/multiple output specification ▪ Supports ITU-T G.9964: Unified high-speed wireline-based home networking transceivers – Power spectral density specification
SW Features	▪ Supports VLAN Trunk ▪ Supports IEEE802.1ad VLAN Stacking function ▪ Supports four priority queues for each subscriber-side interface ▪ Supports VLAN tagging, VLAN filtering (based on Trunk implementation) function ▪ Supports Web GUI for monitoring ▪ Supports PPPoE IA ▪ Supports Up Stream/Down Stream bandwidth configuration ▪ Supports SNMP v2 and v3 Management ▪ Supports CLI Management via SSH or Local Console Port ▪ Supports DHCP Relay Agent Information Option (Option 82) ▪ Supports Management-VLAN List ▪ Supports VLAN Redirect

MDU-4620

G.hn wave2 over coaxial | SFP+ Uplink

SPECIFICATIONS	
Frequency	250MHz to 1.2GHz
ENVIRONMENT	
Operating Temperature	-20°C ~ +70°C
Relative Humidity	100% condensing, fully submersible

Applications

⚠ WARNING

Disconnect the power line from the device before servicing.

Do NOT open the casing

Do NOT use near water

Keep away from the fire

For use in ventilated environment / space

CE Standards:
EN 55032 / EN 55035
EN 62368-1

CE

Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.