

FTTdp (G.hn) GbE over Cable Master Switch & Client CPE



AG4000 & AG410

- FTTdp MDU Application
- "Gigabit-Class" Broadband Services
- Existing Coax Network
- **5 to 85MHz or 65MHz**
- 450Mbps@100m
- ITU G.hn with Flexible Bandwidth Allocation
- 8K UHD Supported
- Optional WIFI Client
- Support Remote Monitoring and SNMP

ACT FTTdp (G.hn, ITU G.9960/61) Master Switch and Client (AG4000 and AG410) are a series of next generation GbE over Cable devices designed for Ultra HD IPTV over Fibre to the Distribution Point(FTTdp) and cost effective CATV coaxial network, delivering multi-media services into the multi-dwelling units (MDUs). AG4000 FTTdp Master and AG410 Client units are compatible with traditional CATV network, Gigabit EPON and Active Ethernet (P2P) networks.

AG4000 FTTdp Master and AG410 Client provide the migration path from traditional HFC to PON/P2P type of Fiber to the Building application. It offers high quality CATV signal together with high speed broadband data access, which can be managed through the SNMP management system.

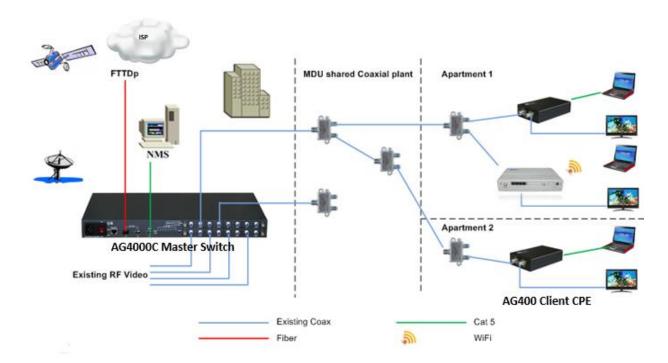
The AG4000 and AG410 FTTdp units are fully compliant with IEEE802.3, 802.3x, 802.3au, 802.1P and 802.1Q standards. It provides great flexibility to network service operator to connect MDUs with multiple low cost CPE unit. With outstanding performance, quality, and features packed in a compact sized device, these FTTdp series units are a great selection for Network Operators and Services Providers in Hybird Fiber Coax networks.

Advanced FTTdp Access Solution



Key Features -

- Advanced Multi-Access Platform designed for Fiber to the Distribution Point application (MDU)
- Suitable for short distance Coax (few hundred meters) HFC system
- Deliver high speed internet, VoIP and CATV services
- Traditional CATV RF spectrum from 85/105 to 1002MHz
- Support NTSC, PAL, DVB-C, DVB-T video standards
- Support VLAN (802.1q), QoS(802.1p), IGMP, FW UPG via TFTP
- Support 1Gbps PHY bit rate over single medium
- Optimize the service performance as well as utilization of limited IP resource for service providers
- AG4000 FTTdp Master can support up to 16 Clients CPE units per port
- Network monitoring and management through WEB GUI, CLI, SNMP v1/v2/v3



Application Diagram

Advanced FTTdp Access Solution

Specifications -

AG4000 GbE over Coax Master Switch and AG410 Client





AG4008C-F-85-00-AC Mas	ter Switch AG4	11C-HN-85-1 Client CPE Device	
	AG4	AG411CW-HN-85-1 Client WiFi CPE (802.11n)	
Gigabit Ethernet SFP Ports	2x 10/100/1000Mbps SFP Uplink	4x 10/100bps LAN port	
		WIFI(2.4GHz) with PPoE	
CATV RF Input	8 CATV Coaxial F Connector	1 x CATV Coaxial F Connector	
CATV/GbE RF Output	8 CATV Coaxial F Connector	1 x CATV Coaxial F Connector	
	16 CPEs per Port		
G.hn Specification	ITU G.hn, ITU G.9960 system architecture and PHY layer, G.9961 data link layer,		
	G.9962 management plane		
Protocol	FFT, OFDM, LDPC, FEC	FFT, OFDM, LDPC, FEC	
RF Bandwidth	5 to 65/85MHz, 85/104 to 1000MH	tz 5 to 65/85MHz, 85/104 to 1000MHz	
Typical G.hn Link Range	100 to 500 meters	100 to 500 meters	
Output Power	120dBuV per Carrier		
Data Performance			
MAC Speed (Bi-Directional)	450Mbps	450Mbps	
Physical Layer Speed	Up to 1000Mbps	Up to 1000Mbps	
IEEE	IEEE 802.3, IEEE 802.3x	IEEE 802.3, IEEE 802.3x	
	IEEE 802.u Auto MDI(X), 802.1x	IEEE 802.u Auto MDI(X), 802.1x	
VLAN/QoS	IEEE 802.1P, IEEE 802.1Q	IEEE 802.1P, IEEE 802.1Q	
Encryption	128-bit AES	128-bit AES	
General Specifications			
Operating Temp	0 to 55 ℃	0 to 55 ℃	
Storage Temp	-25 to 70°C	-25 to 70°C	
Power Supply	100 to 240 VAC Adaptor	5V, 100 to 240 VAC Adaptor	
Operating relative humidity,	10 to 90%	10 to 90%	
Power Consumption	≤16 <i>W</i>	<3 W (5W WIFI)	
Dimensions (W x D x H)	408 x 301 x 44 <i>mm</i>	104 x 66 x 27 <i>mm</i>	
		174 x 130 x 33 mm (WIFI)	
Weight, kg	4.5 kg	0.2 kg	



Ordering Information -

AG4008C-F-85-00-AC	AG4000 IP Over Coax G.hn managed switch, 5to85MHz, 2x1G SFP uplink, 8 CATV In, 8 IP COM ports, 90 to 264VAC
AG411C-HN-85-1	AG400 G.Hn IP Over Coax CPE, 1 CATV & G.hn RF in, 1x10/100/1000BaseT RG45 output, 1 CATV RF Output Port, 100 to 240VAC Adapter included
AG411CW-HN-85-1	AG400 G.Hn IP Over Coax CPE, 1 CATV & G.hn RF in, WIFI, 4x10/100/1000BaseT RG45 output, 1 CATV RF Output Port, 100 to 240VAC Adapter included
AG4008C-F-65-00-AC	AG4000 IP Over Coax G.hn managed switch, 5to65MHz, 2x1G SFP uplink, 8 CATV In, 8 IP COM ports, 90 to 264VAC
AG411C-HN-65-1	AG400 G.Hn IP Over Coax CPE, 1 CATV & G.hn RF in, 1x10/100/1000BaseT RG45 output, 1 CATV RF Output Port, 100 to 240VAC Adapter included
AG411CW-HN-65-1	AG400 G.Hn IP Over Coax CPE, 1 CATV & G.hn RF in, WIFI, 4x10/100/1000BaseT RG45 output, 1 CATV RF Output Port, 100 to 240VAC Adapter included



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