

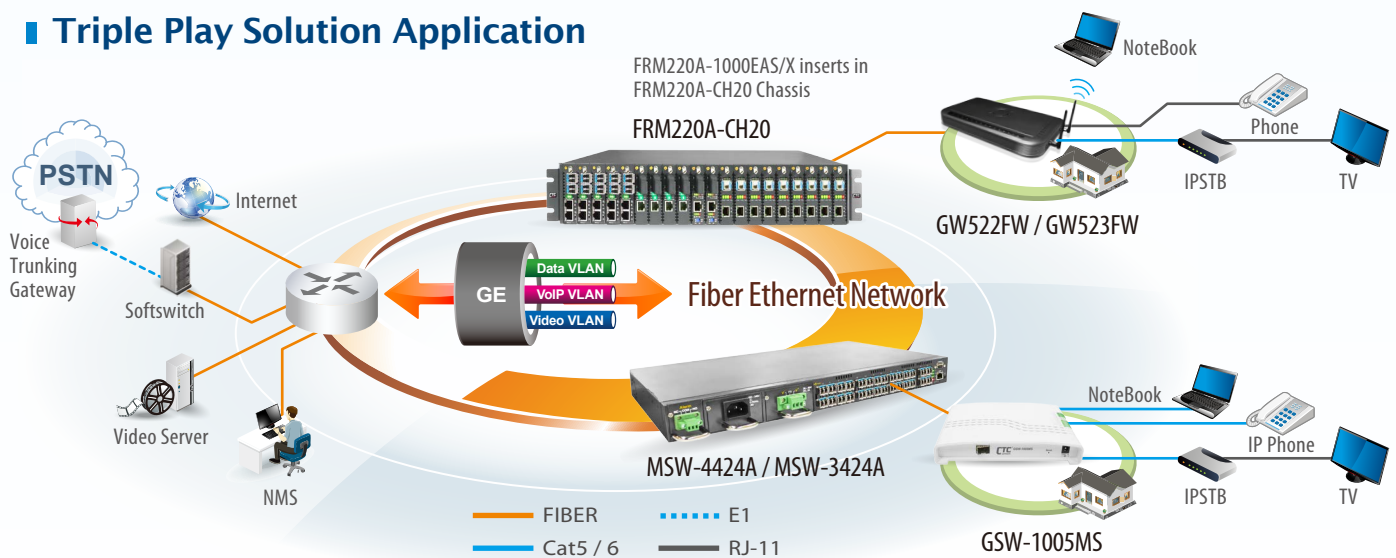
## Deliver High-Speed Internet, VoIP and HD IPTV over active Ethernet fiber



Nowadays, FTTH is a booming and universally known technology for the next generation broadband residential service in the world. Generally, the multiple services or triple-play services in particular consist of VoIP telephony, high definition IPTV, and high-speed internet service which are delivered via a single infrastructure. With the popularity of next generation network (NGN), the delivery of triply-play services via IP network is one of the most suitable and cost-effective choices for service providers and carriers. The deployments of triple-play services offer multiple benefits that include:

- Delivery of multiple services such as data, voice, video over one fiber based network infrastructure
- Flexible scalability for future upgrade and maintenance
- Increase average revenue per user (ARPU)

### ■ Triple Play Solution Application



### Triple Play CO Site Solutions

**FRM220A-CH20**

- Power redundancy
- IEEE 802.1Q VLAN, Q-in-Q
- QoS, rate limit control
- Web/Telnet/SNMP management
- IEEE 802.3ah OAM/IP in-band management

**FRM220A-GSW/SNMP**  
Gigabit Ethernet Aggregation Switch Card

**MSW-4424A / MSW-3424A**

- 24- port 100/1000Base-X + 4-port 10GBase-X SFP+ (MSW-4424A)
- 24- port 100/1000Base-X + 4-port 1000Base-X SFP (MSW-3424A)
- Power redundancy, 9K Bytes jumbo frames
- VLAN, QoS, rate limit control
- IGMP snooping / MVR / Web / CLI / SNMP management
- IEEE 802.3ah / IEEE 802.1ag / ITU-T Y.1731 OAM management

### Triple Play CPE Site Solutions

**GW522FW / GW523FW**

- Multi-WAN ports
- Per port based NAT/bridge hybrid mode
- IEEE 802.1Q tagged VLAN
- IEEE 802.1p / DSCP QoS
- Port based egress/ingress rate limit control
- IGMP snooping v1/v2
- RFC3261 SIP
- IEEE 802.11n draft WiFi
- TR-069/TR-104 (optional)

**GSW-1005MS**

- 5- port 10/100/1000Base-T + 1- port 100/1000Base-X SFP
- 9K Bytes jumbo frame
- IEEE 802.1Q tagged VLAN, Q-in-Q
- IEEE 802.1p/DSCP QoS
- Port based egress/ingress rate limit control
- IGMP snooping v1/v2
- DHCP auto provisioning
- Web/SNMP management
- Cable tray (optional)

• The specification and pictures are subject to change without notice.