



## GSW-3420FM

20x GbE, SFP + 4x GbE Combo (SFP or RJ45) L2+ Managed Ethernet Switch

GSW-3420FM is an SNMP manageable Gigabit Ethernet switch for FTTx deployment or Gigabit Ethernet fiber aggregation that equipped 20 dual rate 100/1000Base-X SFP ports and 4 Gigabit Ethernet combo (10/100/1000Base-T or 1000Base-X) ports. With advanced layer 2 and QoS features, this switch is targeted at multi-service operators (MSO) with a desire to deploy provisioned triple play services via active Ethernet FTTx network infrastructures. Fiber based network infrastructures offer the data rates required by triple play services such as high speed internet access, VoIP and HD IPTV. The GSW-3420FM Ethernet access switch provides VLAN, QoS and IGMP L2 feature sets as well as robust security management to facilitate service provider's build out of a manageable and secure FTTx access network.

### Feature

- 20x SFP ports, support 100Base-FX or 1000Base-X
- 4x RJ45/SFP(100/1G) ports, auto-detect RJ45/SFP connection
- IPv6 management
- 8 priority queues are supported on each port for QoS application
- Port-based VLAN, 802.1Q VLAN, Voice VLAN and Q-in-Q(double tagging) function
- Protected Port and LoopBack Detection function
- IEEE 802.1x security function, and VLAN assignment, Guest VLAN functions
- Static Mac address access limit and Dynamic Mac address number on port
- IEEE802.1d & 802.1w & 802.1s
- IP Multicast with IGMP snooping / query / fast leave / filtering / group limited /MVR
- DHCP Client / DHCP Option 82 Relay / DHCP Snooping function
- ACL function for L2 ~ L4 packet control, Ingress/Egress rate control on port
- Broadcast/Multicast/Unicast storm control
- ARP inspection / IP source guard
- RMON 1,2,3,9
- SFP Transceiver DDMI function
- Remote port configuration setting and statistics monitoring
- Text configuration download and upload
- IEEE 802.3az power management / Green Ethernet

### Specifications

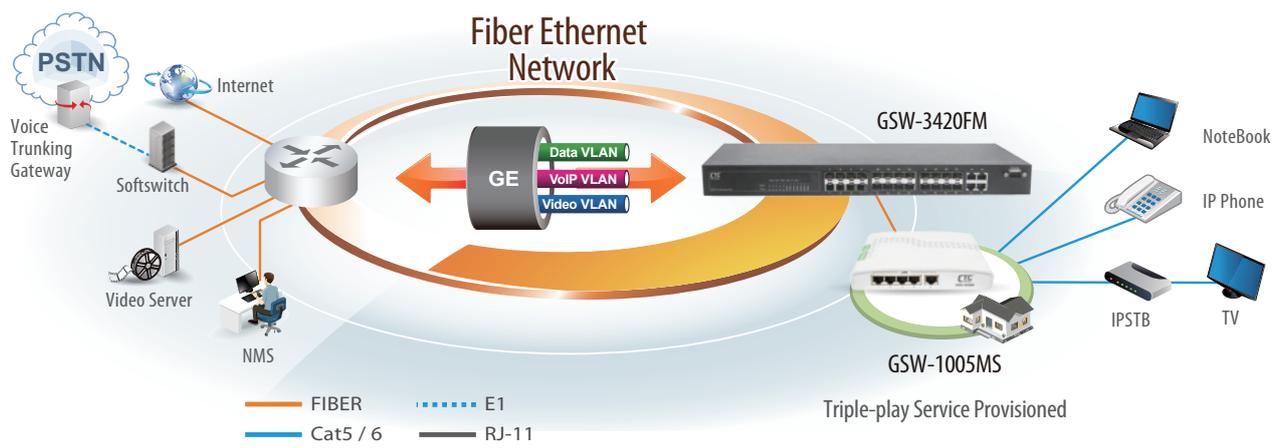
System		
100/1G SFP Port	20	
UTP/SFP Combo Port	4	
CPU	416MHz MIPS 24KEc CPU as the main processor which integrated on switch controller	
Memory	Flash : SPI 16MB / RAM:DDRII 128MB	
Packet buffer	2M Bytes	
MAC Table size	16K	
Max Packet Size	9600 Bytes	
Switching capability	14880pps at 10Mbps, 148800pps at 100Mbps, 1488000pps at 1Gbps	
Switch capacity	48Gbps	
Forwarding Rate	35.7Mpps	
FAN Design	Yes	
Console port	D-Sub 9	
19" Rack-Mount	Yes, with kits	
SFP DDMI	Yes	
Dimension	172 x 440 x 44 mm (D x W x H)	
Environmental Temperature	Operating : 0 ~ 50°C Storage : -25 ~ 70°C	
Humidity	10% ~ 90% (non-condensing)	
LED Display	Per Port : Link/Act (Green: Gigabit, Yellow:10/100M) Per Device : Power and System	
Power Consumption	<30W Max.	
Power Input	AC Power input (100V~240V)	
LED	Status	Condition
Power	Lights(Green)	System is receiving power
System	Lights(Green)	System is ready
Link / Act	Lights	Link is ready
		1000Mbps : Green
		100Mbps : Amber
	Flashing	Data packets being received or sent

Software	
Port Control	Port speed, duplex mode, and flow control Port Auto MDI/MDI-X Port frame size (jumbo frames), Maximum ingress frame size (10056 bytes) Port state (administrative status) Port status (link monitoring) Port statistics (MIB counters) Port VeriPHY (cable diagnostics)
L2 Switching	Auto MAC address learning/aging and MAC addresses (static) IEEE 802.1Q static VLAN(4096 entries Max.), Voice VLAN Port isolation, Private VLAN, static, MAC based VLAN protocol based VLAN IP subnet based VLAN IEEE 802.1D STP/802.1w RSTP/802.1s MSTP IEEE 802.3ad Link Aggregation, static and LACP BPDU guard and restricted role, Error Disable Recovery DHCP client, DHCP snooping, DHCP option 82 relay ARP inspection(256 entries Max.) Port mirroring
Layer 2 Multicast	IGMP snooping v1,v2, v3 snooping, (1024 groups) IGMP snooping Fast and Immediate leave IGMP throttling, filtering, and leave proxy MVR and MVR profile IPv6 MLD VI snooping
QoS	8 Priority Queues per Port Port Based priority Scheduler priority QoS Control List(256 entries Max.) Storm control for UC, MC, and BC Policing and shaping per port and per queue Ingress Policing Egress Shaping DiffServ (RFC 2474) remarking Tag remarking

<b>Security</b>	Port-based 802.1X, Single 802.1X, Multiple 802.1X MAC-based authentication, VLAN assignment, QoS assignment, Guest VLAN RADIUS accounting MAC address limit TACACS+ Web and CLI authentication and authorization Authorization ACLs for filtering, policing, and port copy IP source guard
<b>Synchronization</b>	NTPv4 Client
<b>SFP DDMI</b>	Yes

<b>Management</b>	HTTP server CLI console port Telnet Management access filtering SSHv2 and HTTPS IPv6 Management System Syslog Software upload through Web and TFTP SNMPv1/v2c/v3 Agent RMON Group 1, 2, 3, and 9 IEEE 802.1AB-2005 Link Layer Discovery, LLDP Text Configuration download or upload sFlow Daylight Saving
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## Application



## Ordering Information

Model Name	Description
<b>GSW-3420FM-AC</b>	20x 100/1000Base-X SFP slots + 4x GbE combo ports L2+ Switch with single AC Power Supply
<b>GSW-3420FM-AD</b>	20x 100/1000Base-X SFP slots + 4x GbE combo ports L2+ Switch AC & DC Power Supply

Power Type  
**GSW - 3420FM - □□**  
 Example: GSW - 3420FM - AD