



# KS-115FM-V, KS-117FM-V



## Web Smart 5/7-Port Fast Ethernet Switches with 1 Fiber Connection

### Product Highlights:

- 5/7-port switch
- Web management
- 4/6 FE 10/100 ports
- 1 FE 100FX port
- Compact design
- 802.1Q Tagged VLAN support
- Fiber connectivity

### Key Features:

- Comply with IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX, 100Base-FX standards
- Provide 4/6 10/100Mbps Fast Ethernet ports and 1 100Base-FX port
- Each TP port supports auto-negotiation and auto-MDI/MDI-X detection
- Support full/half-duplex operation for each TP switched port
- Support a variety of fiber connectors such as ST, SC, MT-RJ, VF-45 and LC
- Multimode and single mode fiber cables (model dependent)
- Self learning for active MAC addresses up to 2K entries
- Store-and-forward switching that only good packets are forwarded
- Forwarding and filtering at full wire speed
- Flow control for traffic congestion
- Broadcast packet storm protection
- Comprehensive LED indicators

### Management Features:

- Web-based interface for easy management
- Static IP or DHCP supports for IP configuration
- Port status and configuration
- VLAN configuration
- Security check for management login
- Restore factory default settings
- Remote boot

### Specifications:

Number of Ports	KS-115FM-V: 4 x 10/100TX ports with 1 x 100FX port KS-117FM-V: 6 x 10/100TX ports with 1 x 100FX port
TX Port	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX std. Shielded RJ-45 jacks with Auto MDI-X detection Auto-negotiation capable Speed for 10Mbps or 100Mbps Full-duplex or Half-duplex operation
FX Port	IEEE 802.3u 100BASE-FX compliant Fixed 100Mbps Full-duplex operation
Flow control	IEEE 802.3x pause packet for Full-duplex operation Back pressure for Half-duplex operation
Cables	10Base-T: Cat. 3, 4, 5 or higher (100 meters max.) 100Base-TX: Cat. 5, 5e or higher (100 meters max.) 100Base-FX: Multimode or single mode fiber cable
LEDs	Power status TX ports: Speed, Link/Act, Duplex/Collision status FX port: Link/Act status, Duplex/Collision status



### Ordering Informations:

Model KS-115FM-V-X KS-117FM-V-X	Fiber Mode	Connector	Ref. Distance
-VT	MM	Dual ST	2km
-VC	MM	Dual SC	2km
-VJM	MM	MT-RJ	2km
-VVM	MM	VF-45	2km
-VSA2	SM	Dual SC	20km
-VSL2	SM	Dual SC	20km
-VSL3	SM	Dual SC	30km
-VSL4	SM	Dual SC	40km
-VSL6	SM	Dual SC	60km
-VW3515	SM	Bi-Di SC	15~20km
-VW5315	SM	Bi-Di SC	15~20km

MM: Multimode Fiber  
SM: Single Mode Fiber

Filtering Rate	14,880 pps for Ethernet (10BASE-T) 148,800 pps for Fast Ethernet (100BASE-TX)
Forwarding Rate	14,880 pps for Ethernet (10BASE-T) 148,800 pps for Fast Ethernet (100BASE-TX)
MAC Address Table	2K entries
Ageing Time	300 seconds
VLAN Mode	Port-based VLAN, 802.1Q Tag-based VLAN
VLAN groups	16 groups (Group 0 ~ 15)
Port PVID	Full 12-bit VID, per port setting
Port Tag Mode	Tag/Untag mode, per port setting
Environment	Operating Temperature: 0°C ~ 40°C Relative Humidity: 10% ~ 90% non-condensing
Dimension	144 x 100 x 26 mm (WxDxH)
DC IN Power	Rating +7.5V min. 1A
Operating Voltage	+6.5VDC ~ +12.5VDC (Device DC Input)
Power Consumption	7W max.

### Fiber Optical Specifications:

Model	Connector	Fiber & Cable	Wavelength	Tx Power	Rx Sens.	Rx Max.
-VT	ST Duplex	MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm
-VC	SC Duplex	MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm
-VJM	MT-RJ	MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm
-VVM	VF-45	MMF	1310nm	-20 ~ -14dBm	-31dBm	-14dBm
-VSA2	SC Duplex	SMF	1310nm	-15 ~ -8dBm	-31dBm	-7dBm
-VSL2	SC Duplex	SMF	1310nm	-15 ~ -7dBm	-32dBm	-3dBm
-VSL3	SC Duplex	SMF	1310nm	-15 ~ -8dBm	-34dBm	0dBm
-VSL4	SC Duplex	SMF	1310nm	-5 ~ 0dBm	-34dBm	-3dBm
-VSL6	SC Duplex	SMF	1310nm	-5 ~ 0dBm	-35dBm	0dBm
-VW3515	Bi-Di SC	SMF	TX 1310nm RX 1550nm	-14 ~ -8dBm	-31dBm	0dBm
-VW5315	Bi-Di SC	SMF	TX 1550nm RX 1310nm	-14 ~ -8dBm	-31dBm	0dBm

MMF: Multimode fiber -62.5/125 μm, 50/125 μm  
SMF: Single Mode fiber -9 /125 μm



FCC Part 15, Class A  
CISPR 22 Class A

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### Application

Edge workgroup switch with uplink to 802.1Q tagged backbone network via 1000M fiber

