



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:

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|-----------------|---|
| 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 | Conne- tor | 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 | +6.5V ~ +12.5VDC (Device DC Input) |
| Power Consumption | 7 watts. (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

