



# KS-105F-B, KS-108F-B



## 5/8-Port Fast Ethernet Switches with 1 Fiber Connection

### Key Features:

- Provide 4/7 10/100Mbps Fast Ethernet Switch ports and 1 100Base-FX port
- Each TP port supports auto-negotiation and auto-MDI/MDI-X detection
- For the 100Base-FX fiber port, the switch series supports variety of fiber connectors for different application needs. The fiber connectors include ST, SC, MT-RJ, LC and VF-45 types for multimode and single mode fiber cables
- Support duplex mode selector for the 100BASE-FX fiber port
- Self learning for active MAC addresses and address aging
- Store-and-forward switching to ensure only good packets are forwarded
- Forwarding and filtering at full wire speed
- Support IEEE 802.3x flow control for full-duplex mode and backpressure flow control for half-duplex mode
- Comprehensive LED indicators provide quick, easy to read port and switch information

### KS-105F-B

- Power saving mode when Port link down
- Broadcast storm filtering

### Specifications:

10/100 Ports	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 mode support
100FX Port	IEEE 802.3u 100BASE-FX compliant, Fixed 100Mbps operation Duplex mode selector - Full-duplex or Half-duplex KS-105F-B - Far End Fault function
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 Per port: Speed, Link, Activity, Duplex, Collision status
Forwarding rate	14,880 pps for Ethernet (10M) 148,800 pps for Fast Ethernet (100M)
MAC Address Table	KS-105F-B: 2K entries KS-108F-B: 1K entries
Aging time	KS-105F-B: 280 seconds KS-108F-B: 240 seconds



### Ordering Informations:

KS-105F-B-x KS-108F-B-x	Fiber Mode	Connector	Ref. Distance
-T	MM	Dual ST	2km
-C	MM	Dual SC	2km
-JM	MM	MT-RJ	2km
-VM	MM	VF-45	2km
-SA2	SM	Dual SC	20km
-SL2	SM	Dual SC	20km
-SL3	SM	Dual SC	30km
-SL4	SM	Dual SC	40km
-W3515	SM	Bi-Di SC	15~20km
-W5315	SM	Bi-Di SC	15~20km

MM: Multimode Fiber  
SM: Single Mode Fiber  
Ref. Distance: Reference connection distance



FCC Part 15, Class B  
CISPR 22 Class B

#### Katron Technologies Inc.

15F-7, No. 79, Sec. 1, Hsin Tai Wu Rd.,  
Hsi-chih, Taipei Hsien, Taiwan.  
Tel: 886-2-2698-3878  
Fax: 886-2-2698-3873  
E-mail: kti@ktinet.com.tw  
URL: http://www.ktinet.com.tw

#### KTI Networks Inc.

10415-A Westpark Drive, Houston,  
TX 77042. U.S.A.  
Tel: 1-713-266-3891  
Fax: 1-713-914-0555  
E-mail: contact@ktinet.com  
URL: http://www.ktinet.com

Trademarks: All brand names are trademarks or registered trademarks of their respective holders.  
This information is subject to change without prior notice.

Environment	Operating Temperature: 0°C ~ 40°C (Main device) Relative Humidity: 10% ~ 90% non-condensing (* The operating temperature range of the bundled power adapter may differ from the temperature range of the main device.)
Dimensions	KS-105F-B: 144 x 104.5 x 26 mm (WxDxH) KS-108F-B: 180 x 114.5 x 26 mm (WxDxH)
Power Input	+5V ~ +12VDC (+/-5%) via external power adapter
Power Consumption	KS-105F-B: 3W max. @+7.5V (DC IN) KS-108F-B: 3.5W max. @+7.5V (DC IN)

### Fiber Optical Specifications: KS-105F-B-x, KS-108F-B-x

Model	Connector	Fiber & Cable	Wavelength	Tx Power	RX Sens.	Rx Max.
-T	ST Duplex	MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm
-C	SC Duplex	MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm
-JM	MT-RJ	MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm
-VM	VF-45	MMF	1310nm	-20 ~ -14dBm	-31dBm	-14dBm
-SA2	SC Duplex	SMF	1310nm	-15 ~ -8dBm	-31dBm	-7dBm
-SL2	SC Duplex	SMF	1310nm	-15 ~ -7dBm	-32dBm	-3dBm
-SL3	SC Duplex	SMF	1310nm	-15 ~ -8dBm	-34dBm	0dBm
-SL4	SC Duplex	SMF	1310nm	-5 ~ 0dBm	-34dBm	-3dBm
-W3515	Bi-Di SC	SMF	TX 1310nm RX 1550nm	-14 ~ -8dBm	-31dBm	0dBm
-W5315	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