



# KC-3000 Series



## Modular & Managed Media Converter Centers

### Key Features:

#### Chassis

- 19" rack mountable and 2U height.
- Accommodates up to 16 media converter modules.
- One slide-in slot in the back is for AC/DC power modules.
- Provides hot swap function for converter modules.
- Chassis can withstand a static load of 60Kgs.
- Highly modularized chassis design with
  - Media converter modules.
  - SNMP module.
  - System LED module.
  - System power module.
- LED indicators for system status and failure.
- Audible buzzer to indicate fan failure.
- Fans can be replaced without powering down the system
- Supports in-band telnet, SNMP and web-based management.
- Supports out-of-band RS232 console management.
- Management from anywhere and any platform using a web browser.
- Graphic user interface for easy configuration and monitoring of the system.
- Supports in-band event SNMP trap report.
- Provides TFTP Software for firmware upgrade.
- Supports single fiber connectivity when using KC-3000-WDM-320 and KC-3000-WDM-520 modules.

#### Slide In Modules

- Comply with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/100Base-FX and IEEE802.3x flow control.
- Provide media conversion for TP and fiber optic media types.
- Extend network span from 2km (Multi-Mode) to 40km (Single-Mode).
- 10/100Mbps, auto-negotiation on TP port.
- Support IEEE802.3 Ethernet frame 64 ~ 1518 bytes and VLAN tagged frame up to 1522 bytes.
- Auto MAC address learning and 4,096 MAC address table entries.
- Support back-pressure-based flow control on half-duplex and pause-frame-based flow control on full duplex.
- Wire speed store and forward technology.

#### AC/DC Power

- Module design for easy maintenance.
- All output power protected for short circuit.
- AC power in full voltage range from 90VAC to 240VAC.
- 48VDC power input for the telecommunication industry.

## Management

- Provides telnet, SNMP and web browser software over TCP/IP network.
- Supports protocols like Ipv4, TCP, UDP, ICMP, SNMP, MIB-II, TFTP, Telnet, HTTP.
- Provides telnet and console management to:
  - Set and display IP parameters for the system, SNMP parameters for the SNMP agent function.
  - Monitor system fan status and other system information.
  - Monitor installation status of each slot.
  - Monitor the configuration and link status of each module installed.
- Restore default settings for the system.
  - Change administrator password for access control.
  - Update system software.
- Provides Self-test function each time the system is booted up.
- Provides IP, SNMP menu for setting system information as requested.
- Provides status information for power, fan, CPU and slots.
- Provides firmware update through TFTP protocol.
- Provides graphic user interface for running HTTP and SNMP network management.
- Provides standard MIB-II (RFC1213) and private MIB.
- Supports SNMP traps when event occurs on the system.

## Specifications:

### Chassis:

System Model:	KC-3000/1A	KC-3000/1D	KC-1800/1A	KC-1800/1D
19-inch rack mount:	Yes	Yes	Yes	Yes
Number of slots:	19	19	19	19
Management support:	Managed	Managed	Non-Managed	Non-Managed
System LED module:	Installed	Installed	Installed	Installed
Management module:	Installed	Installed	None	None
Number of MC slots:	16 slots	16 slots	18 slots	18 slots
Plug-in power module:	Yes	Yes	Yes	Yes
Power Module type:	AC power	DC power	AC power	DC power
Input voltage:	100~240V	48V	100~240V	48V
Power supply rating:	150W	150W	150W	150W
Cooling:	Fan	Fan	Fan	Fan

### Mechanical:

Chassis Height (2U):	88mm	88mm
Width:	443mm	443mm
Depth:	328mm	328mm
Weight (no MC modules):	8.2Kg	7.7Kg

### Common Specifications:

Chassis withstand static load 60Kg

## Environmental:

Operating temperature:	-10~50° C
Storage temperature:	-20~70° C
Operating humidity:	10~90%RH

## Emission standard:

Conducted emission:	EN55022, CISPR 22
Radiated emission:	EN55022, CISPR 22
Voltage harmonics:	EN61000-3-2
Voltage fluctuation & flicker:	EN61000-3-3

## Susceptibility:

Electrostatic discharge immunity:	EN61000-4-2, IEC61000-4-2
Radiated immunity:	EN61000-4-3, IEC61000-4-3
EFT/Burst immunity:	EN61000-4-4, IEC61000-4-4
Surge immunity:	EN61000-4-5, IEC61000-4-5
Continuous wave voltage immunity:	EN61000-4-6, IEC61000-4-6
Voltage DIP/Interrupt immunity:	EN61000-4-11, IEC61000-4-11

## Slide-In Modules:

Standard	IEEE802.3 10Base-T and IEEE802.3u 100Base-Tx 100Base-TX/FX. IEEE802.3x flow control.
TP Port	10/100Mbps , Shielded RJ-45
FX Port	100Base-FX, SC connector
Cables	TP port: Cat. 5 UTP 100meters on 100Base-TX Cat. 3, 4, 5 UTP 100meters on 10Base-T  FX Port: Multi-Mode, 62.5/125µm, 2KM Multi-Mode, 50/125µm, 2KM Single-Mode, 9/125µm, 20KM/40KM Single-Fiber, 9/125µm, 20KM
RAM buffer	1Mbit
LEDs	Power, TP link/Act., FX link, TP speed and duplex status
Environment	Operating temperature: -10° ~ +50° C, Storage temperature: -20° ~ +75° C

## The Specification of Fiber Optical Transceiver:

Model	Type	Tx Optical Output/Rx Sensitivity	Wavelength	Cable	Distance Max.
Multi-Mode	SC	-19dBm/-32.5dBm	1310nm	62.5/125um	2Km
Single-Mode	SC	-15dBm/-31dBm	1310nm	9/125um	20Km
Single-Mode	SC	-5dBm/-34dBm	1310nm	9/125um	40Km

## The Specification of Single Fiber Transceiver:

Mode	Type	Tx Optical Output/Rx Sensitivity	Wavelength	Cable	Distance Max.
Single-Fiber	SC Receptacle	-14 ~ -7dBm/ -33dBm	1310nmTX 1550nm RX	9/125um	20Km
Single-Fiber	SC Receptacle	-14 ~ -7dBm/ -33dBm	1550nm TX 1310nm RX	9/125um	20Km

## Ordering Information:

### Chassis:

Model	Description
KC-3000/1A	Media converter center, base unit, with managed CPU, 100 - 240VAC power supply, without any slide-in modules.
KC-3000/1D	Media converter center, base unit, with managed CPU, 48VC power supply, without any slide-in modules.
KC-1800/1A	Media converter center, base unit, with 100 - 240VAC power supply, without managed CPU & any slide-in modules.
KC-1800/1D	Media converter center, base unit, with 48VC power supply, without managed CPU & any slide-in modules.

### Media converter modules:

Model	Description	Fiber Mode	Distance Max.
KC-3000-TFMC	10/100TX to 100FX Media Converter	Multimode (SC)	2Km
KC-3000-TFS20	10/100TX to 100FX Media Converter	Single Mode (SC)	20Km
KC-3000-TFS40	10/100TX to 100FX Media Converter	Single Mode (SC)	40Km
KC-3000-WDM320	10/100TX to 100FX Media Converter	Single Mode	
	1310nm TX/ 1550nm RX, single fiber	(SC Receptacle)	20Km
KC-3000-WDM520	10/100TX to 100FX Media Converter	Single Mode	
	1310nm RX/ 1550nm TX, single fiber	(SC Receptacle)	20Km



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CISPR 22 Class A

*KTI Networks Inc.*  
7400 Harwin Dr., Suite 120  
Houston, Texas 77036 U.S.A.  
Tel: 713-266-3891  
Fax: 713-266-3893  
E-mail: [kti@ktinet.com](mailto:kti@ktinet.com)  
URL: <http://www.ktinet.com>

*Katron Technologies Inc.*  
15F-7, No. 79, Sec. 1, Hsin Tai Wu Rd.,  
Hsi-chih, Taipei Hsien, Taiwan, R.O.C.  
Tel: 886-2-2698-3878  
Fax: 886-2-2698-3873  
E-mail: [kti@ktinet.com.tw](mailto:kti@ktinet.com.tw)  
URL: <http://www.ktinet.com.tw>

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