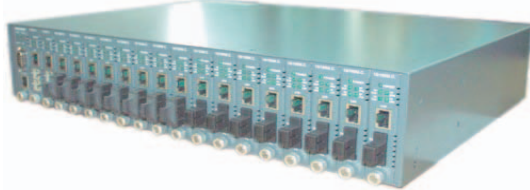


KC-3600 Series



Modular & Managed Media Converter Centers

Key Features:

Chassis

- Managed modular media converter center rack
- 19-inch rack mountable and 2U height
- Accommodates up to 18 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
 - Two system power module for power redundancy
- Power backup feature with 2 power chasis
- Visible system status
- Fans can be replaced without powering down the system
- Provides high availability and maintainability
- 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

Slide-in Modules

10Base-T to 10Base-FL Modules

- Comply with IEEE 802.3 10Base-T and 10Base-FL standard
- Supports low cost multimode fiber and single mode fiber cable when long reach connection is needed
- Extends network span up to 12 km over duplex single mode fiber cabling
- Full LED indicators for monitoring port and connection status

10/100Base-TX to 100Base-FX Modules

- Comply with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX/100Base-FX and IEEE 802.3x flow control
- Supports full wire speed conversion
- Each TP port supports auto-negotiation and auto-MDI/MDI-X detection
- Provides link fault pass through function
- Provides manual configuration settings for TP port to support connection to non-auto-negotiation devices
- Transparent to 802.1Q VLAN tagged packets
- Supports Far End Fault function on FX port
- Supports wide range of fiber options on the FX port
- Low power consumption

1000Base-T to 1000Base-SX/LX Modules

- Comply with IEEE 802.3ab 1000Base-T and IEEE 802.3z 1000Base-SX, 1000Base-LX standard
- Auto-negotiation function built in twisted-pair port that allows to operate at optimal configuration connecting to an auto-negotiation capable device

- Auto-MDI/MDI-X crossover configuration and receiving polarity error correction on twisted-pair interface
- Supports low cost multimode fiber and single mode fiber cable when long reach connection is needed
- Extending network span up to 10km over duplex single mode fiber cabling
- Setting switch to enable or disable auto-negotiation function of the fiber port when connecting non-auto legacy 1000Base-T device
- Full LED indicators for monitoring port and connection status

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 operation 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 slots
 - 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 as firstly power on every time
- Provides IP, SNMP menu for setting system information as request
- Provides status information of power, fan, CPU, slots
- Provides update firmware for software different version through TFTP protocol
- Performing graphical user interface as running SNMP network management
- Provides standard MIB-II (RFC1213) and private MIB
- SNMP traps is supported by event occurs from system
- Provides an http server from any web browser over internet or intranet

Specifications of Media Converter Centers KC-3600

Chassis :

| System Model | KC-3600-1A | KC-3600-2A | KC-3600-1D | KC-3600-2D |
|----------------------|------------|------------|------------|------------|
| 19-inch rack mount | Yes | Yes | Yes | Yes |
| Number of Power | 1 AC power | 2 AC power | 1 AC power | 2 ACpower |
| Management support | Managed | Managed | Managed | Managed |
| Management module | Installed | Installed | None | None |
| Number of MC*1 slots | 18 | 18 | 18 | 18 |
| power Module type | AC power | AC power | DC power | DC power |
| Input voltage | 100~240V | 100~240V | -48V | -48V |
| Power supply | 150W | 150W | 150W | 150W |

Mechanical :

| | | | | |
|------------------------|---------------|---------------|---------------|---------------|
| Chassis Height (2U) | 88mm | 88mm | 88mm | 88mm |
| Dimension | 443x328x88 mm | 443x328x88 mm | 443x328x88 mm | 443x328x88 mm |
| Weight (no MC modules) | 7.7kg | 8.8kg | 7.1kg | 7.7kg |

Environmental :

| | |
|-----------------------|------------------------|
| Operating Temperature | -10°C to 50°C |
| Storage Temperature | -20°C to 75°C |
| Relative Humidity | 10%~90% non-condensing |



10Base-T to 10Base-FL Modules

(Twisted-Pair Interface)

| | |
|------------------------|-----------------------------|
| Standard | IEEE 802.3 10Base-T |
| Connector | Shielded RJ-45 |
| Pin Assignment | MDI-X type |
| Data speed | 10Mbps |
| Duplex mode | Full-duplex |
| Cable Type | 2-pair Category 3, 4, 5 UTP |
| Supported cable length | 100 meters |

(Fiber Optic Interface)

| | |
|-------------|----------------------|
| Standard | IEEE 802.3 10Base-FL |
| Connector | Duplex SC , ST |
| Data speed | 10Mbps |
| Duplex mode | Full-duplex |

(General Information)

LEDs Power, TP Link, TP Receive, FL Link, FL Receive

10/100Base-Tx to 100Base-FX Modules

(Twisted-Pair Interface)

| | |
|------------------------|---|
| Standard | IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX |
| Connector | Shielded RJ-45 |
| Pin Assignment | Auto-MDI/MDI-X detection |
| Data speed | 10Mbps or 100Mbps |
| Duplex mode | Half-duplex or Full-duplex |
| Cable Type | 10Mbps-Category 3, 4, 5 UTP, 100Mbps-Category 5 UTP |
| Supported cable length | 100 meters |

(Fiber Optic Interface)

| | |
|-------------|--------------------------------------|
| Standard | IEEE 802.3u 100Base-FX |
| Connector | SC, ST, MT-RJ, VF-45 or Single SC |
| Data speed | 100Mbps |
| Duplex mode | Full-duplex and optional half-duplex |

(General Information)

LEDs Power, TP Link/Activity, TP Speed, TP duplex, FX Link/Activity

1000Base-T to 1000Base-SX/LX Modules

(Twisted-Pair Interface)

| | |
|------------------------|---|
| Standard | IEEE 802.3ab 1000Base-T |
| Connector | Shielded RJ-45 |
| Pin Assignment | Auto MDI/MDI-X detection |
| Data speed | 1000Mbps |
| Duplex mode | Auto-negotiation for Half-duplex or Full-duplex |
| Cable Type | 4-pair Category 5 UTP, 100Mbps-Category 5 UTP |
| Supported cable length | 100 meters |

(Fiber Optic Interface)

| | |
|-------------|---|
| Standard | IEEE 802.3z 1000Base-SX or LX |
| Connector | Duplex SC |
| Data speed | 1000Mbps |
| Duplex mode | Forced full-duplex or auto-negotiation (by Auto SW) |

Auto SW Auto-negotiation Enable/Disable switch

Duplex mode Forced full-duplex or auto-negotiation (by Auto SW)

(General Information)

LEDs Power, TP Link, TP Transmit, TP Receive, FX Link

The Specification of Fiber Optical Transceiver:

10Base-T to 10Base-FL Modules

| Model | Connector | Fiber Cable | Wavelength | Tx Power | Rx Sensitivity | Distance Max. |
|---------------|-----------|-------------|------------|----------|----------------|---------------|
| KC-3000-FLT | ST Duplex | MMF*2 | 820nm | -15.2dBm | -34.4dBm | 2km |
| KC-3000-FLC | SC Duplex | MMF | 820nm | -15.2dBm | -34.4dBm | 2km |
| KC-3000-FLS12 | ST Duplex | SMF*3 | 1310nm | -30dBm | -39dBm | 12km |

10/100Base-TX to 100Base-FX Modules

| Model | Connector | Fiber Cable | Wavelength | Tx Power | Rx Sensitivity | Distance Max. |
|----------------|-----------|-------------|------------------------|--------------|----------------|---------------|
| KC-3000D-T | ST Duplex | MMF | 1310nm | -19 ~ -14dBm | -33dBm | 2km |
| KC-3000D-C | SC Duplex | MMF | 1310nm | -19 ~ -14dBm | -33dBm | 2km |
| KC-3000D-JM | MT-RJ | MMF | 1310nm | -19 ~ -14dBm | -33dBm | 2km |
| KC-3000D-VM | VF-45 | MMF | 1310nm | -20 ~ -14dBm | -33dBm | 2km |
| KC-3000D-SA2 | SC Duplex | SMF | 1310nm | -15 ~ -8dBm | -31dBm | 20km |
| KC-3000D-SL2A | SC Duplex | SMF | 1310nm | -15 ~ -3dBm | -30dBm | 20km |
| KC-3000D-SL4 | SC Duplex | SMF | 1310nm | -5 ~ 0dBm | -35dBm | 50km |
| KC-3000D-SL6 | SC Duplex | SMF | 1310nm | -3 ~ +3dBm | -37dBm | 70km |
| KC-3000D-SL9 | SC Duplex | SMF | 1310nm | 0 ~ +5dBm | -37dBm | 90km |
| KC-3000D-SL10 | SC Duplex | SMF | 1550nm | -3 ~ +3dBm | -37dBm | 100km |
| KC-3000D-W320A | SC Single | SMF | TX 1310nm RX 1550nm | -14 ~ -8dBm | -33dBm | 30km |
| KC-3000D-W520A | SC Single | SMF | TX 1550nm RX 1310nm | -14 ~ -8dBm | -33dBm | 30km |
| KC-3000D-W340 | SC Single | SMF | TX 1310nm RX 1550nm | -8 ~ -3dBm | -33dBm | 40km |
| KC-3000D-W540 | SC Single | SMF | TX 1550nm RX 1310nm | -8 ~ -3dBm | -31dBm | 40km |

1000Base-T to 1000Base-SX/LX Modules

| Model | Connector | Fiber Cable | Wavelength | Tx Power | Rx Sensitivity | Distance Max. |
|---------------|-----------|---------------------|------------|-------------|----------------|---------------|
| KC-3000-SXC | SX | MM 62.5/125 μ m | 850nm | -9.5~ -4dBm | -12.5dBm | 220m |
| | | MM 50/125 μ m | | | | 500m |
| KC-3000-LXC | LX | MM 62.5/125 μ m | 1310nm | -9.5~ -3dBm | -14.4dBm | 550m |
| | | MM 50/125 μ m | | | | 550m |
| | | SM 9/125 μ m | | | | 10km |
| KC-3000-LXC40 | LX | SM 9/125 μ m | 1310nm | -5~ 0dBm | -22dBm | 40km |

*1 : Media Converter - KC-3000

*2 : Multimode fiber -62.5/125 μ m, 50/125 μ m

*3 : Single Mode fiber - 9 /125 μ m



FCC Part 15, Class B
CISPR 22 Class B

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