

FC690A 8- Port Fast Ethernet Media Converter



Product Brief

FC690 is 10/100Mbps adaptive fast Ethernet fiber converter (also called optical-to-electric medium converter) with a built-in 8-port 10M/100Mbps adaptive switch, which can realize mutual conversion between 8 independent 10Base-T/100Base-TX twisted pair electrical signals and 100Base-FX optical signals. This type of fiber converter can extend the transmission distance of a network from 100m over copper wires to 120 Km (single-mode full duplex mode). This type of fiber converter supports two different types of network connection media types: 10/100Base-TX and 100Base-FX. With the application of the switching technology and the storing & forwarding technology, the converter can implement data transmission between the two types of network connection media. This kind of converter supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

Feature

- ┌ Adaptive 10Mbps and 100Mbps environments, for the convenience of network upgrading;
- ┌ Efficient built-in switching core, to implement flow control and reduce broadcast packets;
- ┌ Providing 8 independent 10/100Mbps adaptive switching-type twisted pair ports, to implement electrical interface backup and multi-user access;
- ┌ Providing 8 electrical interfaces based on VLAN switch setting, and supporting the connection of users from different units;
- ┌ Supporting full-duplex and half duplex transmission modes and capable of automatic negotiation;
- ┌ Supporting automatic crossing of twisted pair ports, for the convenience of system debugging and installation;
- ┌ Supporting the transmission of extra-long packets (with the maximum length of 1552 bytes);
- ┌ Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;

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- l Supporting Spanning Tree Protocol (STP) to form a redundant network;
- l Low power consumption, low heat dissipation and capable of stable operation for a long period of time;
- l Supporting the selection of multiple types of fiber ports such as dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode, expanding the requirements of users;

Specifications:

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u,100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; dual-fiber single-mode: 25/40/60/80/100/120Km; single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	8 RJ45 connector, connected to STP/UTP category-5 twisted pair One fiber port: Multi-mode - SC or ST (fiber size: 50,62.5/125 μ m) Single mode - SC/FC fiber port (fiber size: 9/125 μ m) Single-fiber single-mode - SC/FC fiber port (fiber size: 9/125 μ m)
Conversion mode	Medium conversion, storing and forwarding
MAC address table	1 K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power), FX LINK/ACT (fiber connection/action) FDX (FX full duplex mode), FX100 (Fiber, with a transmission rate of 100M) TP1/2/3/4 LINK/ACT (1/2/3/4-port twisted pairs connection action) TP1/2/3/4100 (1/2/3/4-port twisted pairs, with a transmission rate of 100M)

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Power	220V AC/DC5V/1A (external) • 5VDC/1A
Power consumption	3.5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(Height)*70mm(Width)*98mm(Depth) (external power)

Optical Port Parameters

Model	Mode	Distance Km	Wavelength nm	Transceiver	Tx Power dBm	Rx Sensitivity dBm	Connector
FC690A-M2-SC	Dual fiber multi-mode	2 (full duplex 412m(half duplex))	1310	FP	-20~-14	<-31	SC/ST/FC
FC690A-S20	Dual fiber single mode	25	1310	FP	-15~-8	<-34	SC/ST/FC
FC660A-S40	Dual fiber single mode	40	1310	FP	-10~-5	<-36	SC/ST/FC
FC690A-S60	Dual fiber single mode	60	1310	FP	-5~0	<-36	SC/ST/FC
FC690A-S80	Dual fiber single mode	80	1550	DFB	-8~-2	<-36	SC/ST/FC
FC690A-S100	Dual fiber single mode	100	1550	DFB	-6~-1	<-38	SC/ST/FC
FC690A-S120	Dual fiber single mode	120	1550	DFB	-5~0	<-38	SC/ST/FC
FC690AS-S20	Single fiber single mode	25	1310/1550	FP	-14~-8	<-33	SC/ST/FC
FC690AS-S40	Single fiber single mode	40	1310/1550	FP	-9~-5	<-33	SC/ST/FC
FC690AS-S60	Single fiber single mode	60	TX1310/RX1550	DFB	-6~0	<-36	SC/ST/FC
	Single fiber single mode	60	TX1550/RX1310	DFB	-8~-2	<-36	SC/ST/FC
FC690AS-S80	Single fiber single mode	80	TX1310/RX1550	DFB	-3~3	<-36	SC/ST/FC
	Single fiber single mode	80	TX1550/RX1310	DFB	-5~0	<-36	SC/ST/FC

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	mode		310				
FC690AS-S100-S C	Single fiber single mode	100	TX1490	DFB	-4~0	<-36	SC/ST/FC
			RX1550	DFB	-4~0	<-36	SC/ST/FC
FC690AS-S120-S C	Single fiber single mode	120	TX1490	DFB	-3~1	<-36	SC/ST/FC
			RX1550	DFB	-3~1	<-36	SC/ST/FC

Order Info.

Model	Transmission Rate Mbps	Mode	Working Wavelength (nm)	Transmission Distance (Km)	Fiber Interface	Power
FC690AM-SC/ST	10/100	Dual-fiber multi-mode	1310	2	SC/ST	External DC5V/1A/220VAC
FC690AS20/40/60 -SC/FC	10/100	Dual-fiber single-mode	1310	25/40/60	SC/FC	External AC220V/DC5V
FC690AS80/100/120-SC/FC	10/100	Dual-fiber single-mode	1310	2	SC/FC	External 220VAC/DC5V/1A
FC690ASS20/40/60-SC	10/100	Single-fiber single-mode	1310/1550	25/40/60	SC	External 220VAC/DC5V/1A
FC690ASS80/100/120-SC	10/100	Single-fiber single-mode	1310/1550	80/120	SC	External 220VAC/DC5V/1A

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