

## FC155F ATM Single/Multi-Mode Converters

### Overview

HiOSO Ficom FC155F series ATM single/multi-mode converters are applied to 155Mbps ATM, SDH and 100Mbps fast Ethernet with hybrid wiring of single-mode and multi-mode fibers. It can implement mutual conversion between single-mode and multi-mode 1310nm wavelength as well as mutual conversion among 850nm, 1310nm and 1550nm wavelength, and implement signal trunking, so that transmission distance of signal in multi-mode fiber can be extended longer. FC155F supports transmission in dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode fibers.

### Features

1. Protocols supported: 155Mbps ATM/SDH, IEEE802.3u 100BASE-FX, and FDDI
2. Supporting full-duplex and half-duplex network communications;
3. Capable of mutual conversion between 850nm/1310 multi-mode fibers and 1310nm/1550nm single-mode fibers;
4. Supporting direct and transparent transmission of packets in different length;
5. Low power consumption, low heat and capable of stable operation for a long period time;
6. Supporting multiple types of fiber ports, such as dual-fiber multi-mode, dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

### Application

155Mbps ATM/SDH/fast Ethernet network/FDDI optical network with long-distance transmission

### Pictures



### Technical Specifications

Parameters	Specifications
Access mode	155Mbps (100Mbps)
Standard	155Mbps ATM/SDH, IEEE802.3u 100Base-FX Fast Ethernet, FDDI
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km
Port	One multi-mode fiber port: Multi-mode-SC (fiber size: 50,62.5/125 $\mu$ m) One single-mode fiber port: single-mode- SC fiber port (fiber size: 9/125 $\mu$ m)
Conversion mode	Medium conversion
Delay	< 0.3 $\mu$ s
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power) SM LINK (single-mode fiber link) MM LINK (multi-mode fiber link)
Power	AC220V 0.3A/DC-48V 0.5A
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(H)*85mm(W)*135mm(D) / (height * width * depth) (built-in power) 110mm(H)*22mm(W)*81mm(D) / (height * width * depth) (module card)

### Order Information

Model	Rate (Mbps)	Conversion Mode	Working Wavelength (nm)	Multi-mode Transmission Distance	Single-mode Transmission Distance	Fiber Interface	Power
FC155FP-M13SC 2-S13SC25/40/60	155	Multi-mode to single-mode	1310-1310	2km	25/40/60km	SC	AC220V/ DC-48V
FC155FP-M13SC 2-S15SC80/100/120	155	Multi-mode to single-mode	1310-1550	2km	80/100/120km	SC	AC220V/ DC-48V
FC155FC-M13SC 2-S13SC25/40/60	155	Multi-mode to single-mode	1310-1310	2km	25/40/60km	SC	Module card DC5V
FC155FC-M13SC 2-S15SC80/100/120	155	Multi-mode to single-mode	1310-1550	2km	80/100/120km	SC	Module card DC5V