

Gigabit Fiber Media Converter Specifically Designed for LED Large Screens

JHA-G11LED



Features

- The transmission method uses standard gigabit physical layer technology.
- The system automatically identifies crossover and straight-through cables, allowing for both crossover and straight-through connections when connected to switches or servers.
- Single-mode fiber optic transmission distance reaches 120km, and multi-mode fiber up to 550
- High load capacity; the main control system is 2048×1536, cascable, supporting multiple screens with the same format within a single system.
- One transmitting card can support any number of receiving cards (i.e., any number of displays, with screen splitting capability).
- Perfect image quality; red and green colors can be independently corrected and brightness adjusted arbitrarily.
- Indoor and outdoor compatibility; one card can support 1/16, 1/8, 1/4, 1/2, and static scanning.
- Remote on/off control of the large screen is possible, with automatic brightness adjustment.
- The transmission card's transmission section uses electromagnetic isolation technology and supports hot-swapping.
- High transmission bandwidth, reaching 2GB or higher.

- The main control card boasts high reliability, excellent versatility, and requires no special specifications for the screen circuitry.
- Provides status indicator lights and an external power supply (output 5V~50HZ 2A).
- Features a modular power supply design, separating the function board from the power supply for easy maintenance.
- It employs a unique integrated circuit solution, resulting in low chip temperature rise, eliminating the need for a separate cooling system, enabling flow control, and reducing broadcast storms.
- Utilizes a high-quality optoelectronic integrated module, providing excellent optical and electrical characteristics, ensuring reliable transmission and a long lifespan.
- Includes broadcast filtering, automatic address learning and updating, and a store-and-forward mechanism.
- Supports 9K ultra-long data packet transmission.
- Features ultra-low power consumption (less than 2.5W, Input: AC140~260V), low heat generation, and stable operation over extended periods.

Introduction

The JHA-G11LED series is an independently developed and manufactured pure gigabit fast Ethernet fiber optic transceiver specifically designed for LED large screens. It features one gigabit optical port and one gigabit Ethernet RJ45 interface. The product design conforms to Ethernet standards and incorporates lightning and electrostatic protection measures. It operates over a wide temperature range of -20℃ to 70℃, ensuring stable and reliable performance. This product can be widely used in large-screen dedicated transmission equipment from brands such as Linsn, NovaStar, AVIC Display, LEDALL, Colorlight, KYSTAR, Mooncell, ONBON, LISTEN, and EQ.

Specification

Access Method	Copper Port:1000Mbps	
	Fiber Port Speed:1.25G	
Protocol Standard	Support IEEE802.3Z/AB1000Base-T/SX/LX standard	
Wavelength	850nm/1310nm/1550nm	
Transmission Distance	Cat5:100m	
	Multimode, Dual-fiber:550m	
	Single Mode, Dual-fiber:25/40/60/80/100Km/120Km	
	Single Mode, Single-fiber:25/40/60/80Km/100Km/120Km	
Port	1 RJ45 Port:Connect STP/UTP Cat5 Cable	
	1 Fiber Port	Multimode, Dual-fiber SC/ST/FC(fiber type 50,62.5/125μm)
		Single Mode, Dual-fiber SC/ST/FC(fiber type 9/125μm)
		Single Mode, Single-fiber SC/FC(fiber type 9/125μm)
Conversion Method	Straight Through	
Backplane bandwidth	2G	
MAC address table	8K	
Cache	1 Mbit	
Flow control	Full-duplex: Flow control Half-duplex:Backpressure	
Latency	Store-and-forward: 9.6us; Cut-through: 0.9us	
Bit error rate	<1/1000000000	
LED Indicator	PWR(Power)	
	FX LINK/ACT(Fiber connectivity/action)	
	FDX(Network port full-duplex/half-duplex modes)	
	TX LINK/ACT(Cooper connectivity/action)	
	1000Copper port transmission rate)	
Power	DC 5V2A	
	Consumption	
Work temperature	<2.5W	
Operating humidity	-20~70℃	
	5%~90%	

Store temperature	-40~70°C
Store humidity	5%~90% No Condensation
Size	93*70*25mm

Ordering Information

Model No.	Description of Goods
JHA-G11LED-M	Specifically Designed for LED Screen, 10/100/1000M Multimode, Dual Fiber, 550m
JHA-G11LED-20	Specifically Designed for LED Screen, 10/100/1000M Single-mode, Dual Fiber, 20Km
JHA-G11WLED-20	Specifically Designed for LED Screen, 10/100/1000M Single-mode, Single Fiber, 20Km
JHA-GS11LED-20	Specifically Designed for LED Screen, 10/100/1000M SFP Slot type
Note: 20KM-120KM for optional External/internal power for optional	