FL-1GT1GS-WA
Rail Mounted Industrial Optical Media Converter

Product Features

- Provide 1 * 10/100/1000Base-T and 1 * 1000Base-X optical port,1*9module
- Full duplex or half duplex mode with automatic negotiation capability
- Capable of operating within a wide temperature range of -40 ℃ to 85 ℃
- IP40 protection level, fanless design, natural cooling
- Aluminum alloy metal shell, DIN rail installation or wall mounting (optional)
- Dual power supply DC12-52V or single power supply AC110-240V (optional)
- Anti static electricity (ESD) air ± 15KV contact ± 8KV
- Network port lightning protection: common mode ± 4kV, differential mode ± 2kV

Product Overview

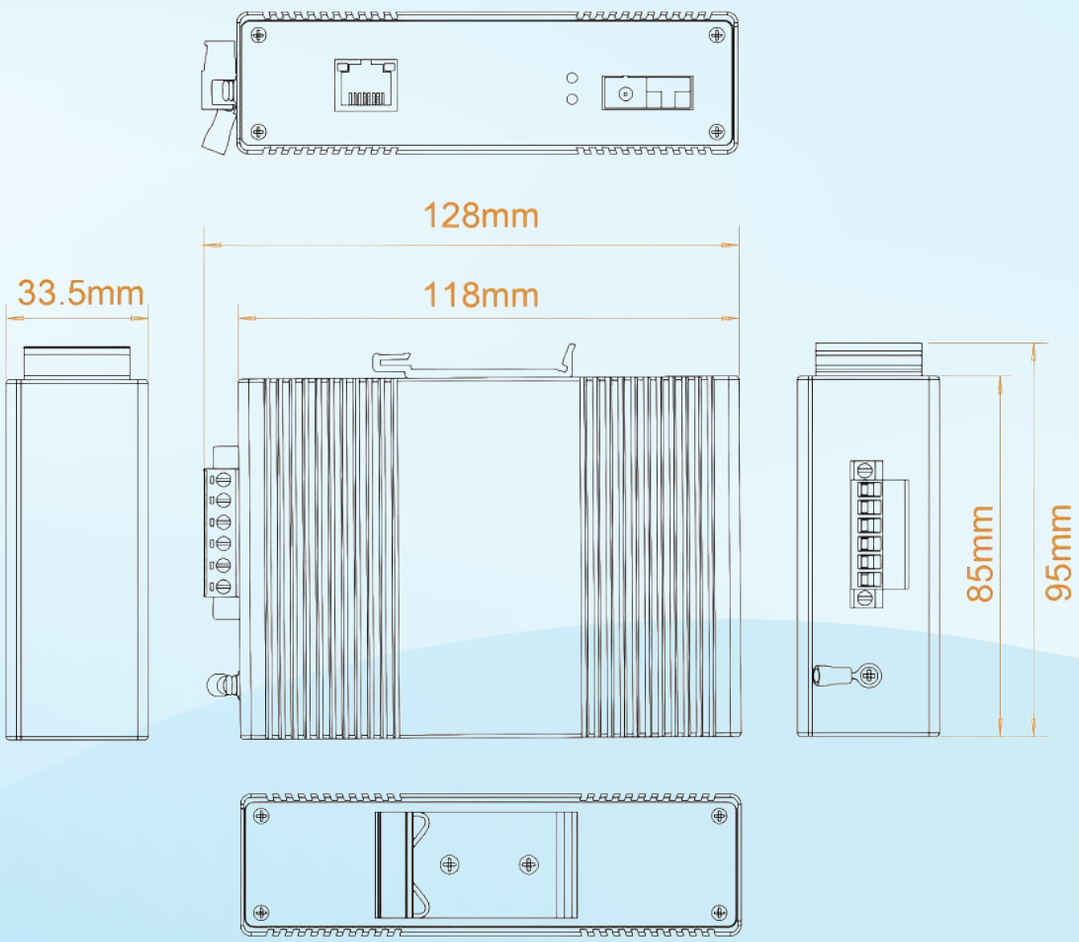
FL-1GT1GS-WA industrial-grade Ethernet transceiver, supporting 1*10/100/1000Base-T and 1* 1000Base-X optical port. Products comply with FCC, CE, ROHS standards. The industrial Ethernet transceiver has an operating temperature of -40°C to 85°C and can adapt to harsh outdoor cabinet environments. It has rail mounting features, IP40 protection level, and LED indicators, making it a plug-and-play industrial-grade device. In short, the industrial Ethernet transceiver provides reliable and reliable solutions for various industrial environments with its excellent performance and design. Efficient networking solutions. With the rapid development of industrial scenarios such as smart manufacturing, smart mining, and smart transportation, industrial Ethernet transceivers will be used more and more widely, making important contributions to the realization of Industry 4.0.

Technical Parameter

RJ45 port	1 * 10/100/1000Base-T (automatic detection) Full/Half Duplex MDI/MDI-X (Adaptive) Transmission distance: ≤ 100 meters
Optical port characteristics	1* 1000Base-X Multimode: 850nm (transmission distance 0~550M), 50μm/125μm&62.5μm/125μm Single mode: 1310nm (transmission distance 3~40KM), 1550nm (transmission distance 0~120KM), 9.5μm/125μm
Network Protocol	IEEE802.3 - CSMA/CD； IEEE802.3i - 10Base-T； IEEE802.3u - 100Base-TX/FX； IEEE802.3x - Flow Control; IEEE802.3z - 1000Base-X； IEEE802.3ab - 1000Base-T；
Work Environment	Working temperature: -40~85 ℃ (-40~185 ° F) Storage temperature: -40~85 ℃ (-40~185 ° F) Relative humidity: 5% to 95% (no condensation)
Power Interface	Input voltage: DC12-52V (non-PoE) Connection terminal: 6-core 5.08mm spacing wiring terminal Support dual power redundancy Support reverse protection
Switch Properties	Application level: Level 2 Backplane bandwidth: 4Gbps Complete package forwarding rate: 2.976Mpps MAC table: 2K Package buffer: 1M Delay time:<3 μ s Exchange method: store forward Power consumption of the whole machine:<3W (non PoE)
Mechanical Properties	Shell: IP40 protection level, aluminum alloy metal shell Installation: DIN rail type, wall mounted installation Heat dissipation method: natural cooling, fanless Machine weight: 0.35Kg Whole machine including packaging weight: 0.45kg Product size: 118 * 85 * 33.5mm (L * W * H)
LED Indicators	Power indicator light: PWR (red light) Light port indicator light: 2 (green light) Network port indicator light: yellow light (Link/ACT) green light (PoE)）
Authentication	CE, FCC, RoHS, ISO9001, Ministry of Public Security inspection report, telecom grade network access license, Vettel testing report
MTBF	300000 hours
Warranty	5 years

Industry standards	**EMI:** FCC Part 15 Subpart B Class A，EN 55022 Class A **EMS :** IEC(EN)61000-4-2(ESD): ±8kV(contact), ±15kV(air) IEC(EN)61000-4-3(RS): 10V/m(80～1000MHz) IEC(EN)61000-4-4(EFT):PowerPort:±4kV; Data Port: ±2kV IEC(EN)61000-4-5(Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6(CS): 10V(150kHz～80MHz) IEC(EN)61000-4-16(CM EMI) : 30V cont. 300V,1s IEC 60068-2-27 (Shock) IEC 60068-2-32 (Freefall) IEC 60068-2-6 (Vibration)

Mechanical dimensions (inmillimeters)



ordering information

PRODUCT MODEL	Gigabit optical port	Gigabit electrical port	INPUT VOLTAGE
FL-1GT1GS-WA	1*(1x9)	1*RJ45	DC12-52V
FL-1GT1GS	1*SFP	1*RJ45	DC12-52V
FL-1GT1GS- AC220V	1*(1x9)	1*RJ45	AC110-240V