

## ETR5 Series

Single Channel 10/100Mbps Ethernet Transceiver



### Main Features

---

**IEEE**

Support IEEE 802.3, 802.3u, 802.3x, 802.3az, 802.1x standards



Plug and Play



4KV surge protection



Support for single mode



Support 9 - 56VDC wide range voltage supply



With PoE option



Industrial-grade wide operating temperature -40°C to +75°C for Din Rail/Base Plate model

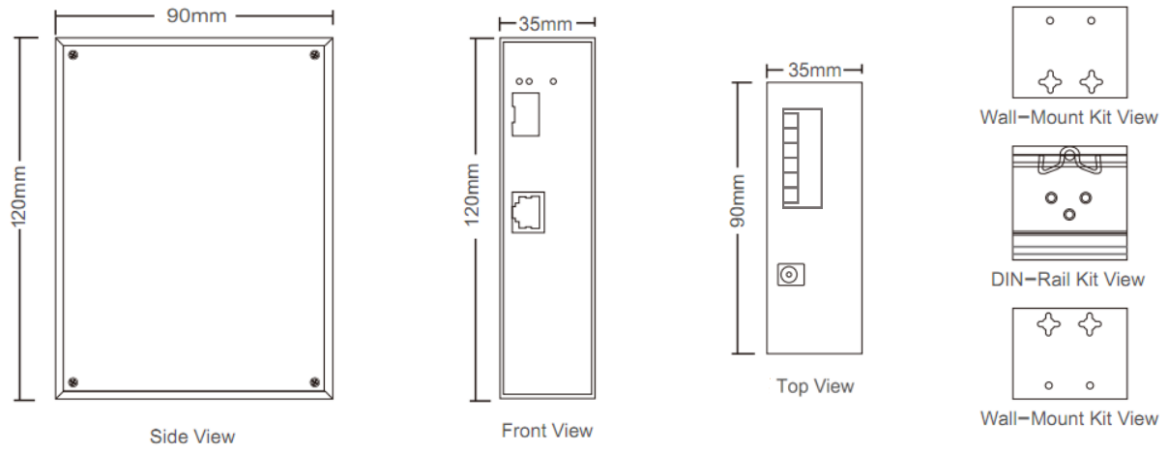


Support for multimode

## Technical Data

	Din Rail/Base Plate	Card Module
<b>Ethernet</b>		
Standard	IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3az, IEEE802.1x	
Packet Buffer	512K	
Maximum Packet Length	Up to 2048 Bytes	
MAC Address Table	4K	
Transmission Mode	Store and Forward (full/half duplex mode)	
Exchange Property	Delay time: < 7 $\mu$ s Backplane bandwidth: 1Gbps; Packet forwarding rate: 0.2976 Mpps	
<b>Optical</b>		
Wavelength	Backend(T1): 1550nm/1310nm	
	Field(T2): 1310nm/1550nm	
Distance	Single Mode: 20/40/60/80km options	
	Multimode: <5km	
<b>Physical</b>		
Ethernet Connector	RJ45 auto sensing 10/100BASE-TX (for number of port, please refer to below ordering info)	
Optical Connector	1 x 100BASE-FX SFP	
<b>Power Over Ethernet (Optional)</b>		
Standard	IEEE 802.3af/IEEE 802.3at PoE	
Power Budget	Max. PoE output power budget 30W	
<b>General</b>		
Power Supply	9 - 56VDC (with PoE: 48 - 52VDC)	5VDC
Power Consumption	Full-load<5W	<3W
Operating Temperature	-40°C to +75°C	0°C to +50°C
Storage Temperature	-40°C to +85°C	-40°C to +70°C
Relative Humidity	5% to 90% non-condensing	
Ingress Protection	IP40	
Mounting	Din rail / Base plate	
Dimension (WxHxL)	120 x 90 x 35mm	71 x 94 x 26mm (mount in FRC4 rack chassis)
Weight	330g (with PoE: 380g)	
<b>Certification</b>		
EMC	FCC Part15 Class A, CE-EMC/LVD, RoHS, EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (EFT), EN 61000-4-5 (Surge), EN 61000-4-6 (CS), EN 61000-4-8, EN 61000-4-11	
Vibration	IEC 60068-2-6, IP40 Protection Test	

## Outline Dimensions (mm)



ETR5 Outline Dimensions

## Model & Ordering Code

ETR5 - X - X - X - X - X

### POE Options

(Blank) : With 1x Non-PoE Port  
 2 : With 2x Non-PoE Port  
 4 : With 4x Non-PoE Port  
 POE1 : With 1x PoE Port  
 POE2 : With 2x PoE Port  
 POE4 : With 4x PoE Port

### Single mode or Multimode Options

SM : Single mode  
 MM : Multi-mode

### Connector Options

ST : ST connector  
 SC : SC connector  
 FC : FC connector

### Single Mode Options

20 : 20km  
 40 : 40km  
 60 : 60km  
 80 : 80km

### Mounting Options

DR : Din rail  
 BP : Base plate  
 CM : Card Module