

ER5805 Series

Industrial Ethernet Router



FEATURE HIGHLIGHTS

Powerful & Trusted Platform

- Quad-Core High-Performance Platform
- Secure VPN and Firewall Isolation
- 5x 1000 Base-TX RJ-45, 1x WAN, 4x LAN
- IEC 62443-4-2 Cybersecurity Compliance*

Quick Deployment & Management

Various Remote Management Protocols

Compact and Robust

- Dimensions (mm): 145 x 120 x 4
- Industrial FMC
- -40°C to +75°C Temp. Operation
- CE/FCC and Other Certifications

Reliable & Redundant Design

- Power Redundancy with PoF PD and DC
- Multi-WAN Failover

Coming soor

PRODUCT DESCRIPTION

ATOP ER, or Ethernet Router, is an advanced device that allows a very tangible scale-up of almost any industrial infrastructure. In addition to high EMC protection, wide-temperature operation, superb hardware and advanced features, ER will provide high-speed internet access with load balancing and high degrees of security, high speeds and advanced configuration options.



Quad-ARM Cortex A7 CPU

ER integrates an industrial-grade Quadcore A7 ARM CPU, enabling the processing power you need to filter heavy traffic over firewalls, routing, forwarding and security measures.



High-Performance

With its integrated 4 x RJ45 LAN ports and 1 x RJ45 WAN Port with VPN feature, ER provides high-throughput connections.



Harsh Environments

ATOP ER is proven to run at its maximum loading in the harshest EMC and climate environments.



Security

Integrating firewall, zone forwarding, and VPN features, ATOP ER allows you to connect your industrial network to the internet without fearing intrusions into your organization data.

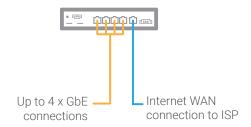








APPLICATION



As a Ethernet Router

ER5805 allows you to easily set up a VPN Router environment for providing a secured access to all users. Perfect for VPN deployment where high speed is required, ER can bridge to the remote VPN server via various VPN protocols with secured key exchange algorithms. Finally, these features are all enclosed in a rugged fanless design with operation temperatures from -40° C up to $+75^{\circ}$ C, to suit applications in any environment.



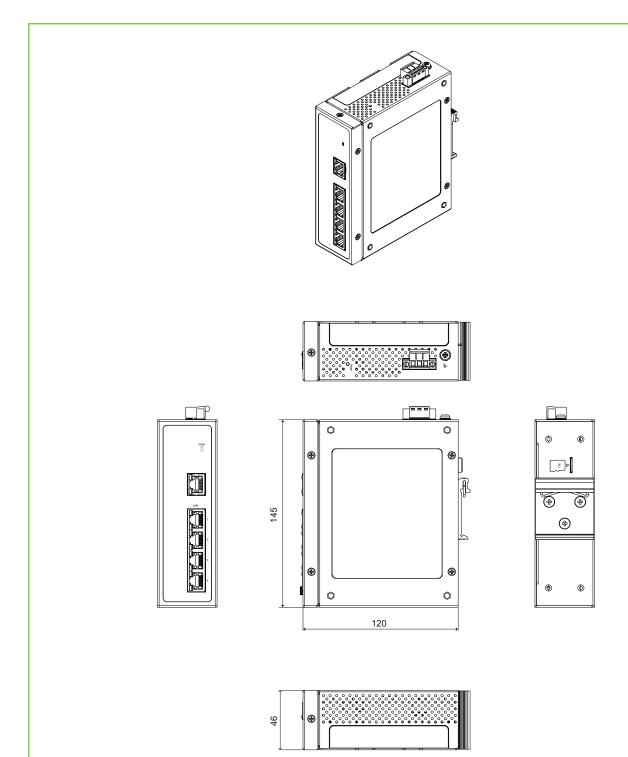


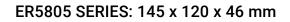


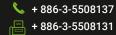




DIMENSIONS & LAYOUT

















SPECIFICATIONS

Hardware Specifications				
Model Name	ER5805			
soc				
CPU	ARM Cortex A7, Quad-Core			
Network Interfaces/Connectivity				
	Standard	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3ab for 1000BaseT(X)		
Ethernet ports	Ports	5x 10/100/1000 BASE-TX RJ-45 1 x WAN 4 x LAN		
Watchdog				
Hardware WD Reset	Yes			
External IO Interfaces				
Default/Reset Button	1 key			
SD Slot	1x micro-SD slot			
Power				
Rated Supply Voltage	DC Power : 12-48V			
Input Voltage Range	DC Power : 10.8-52.8V			
Consumption	< 20W			
Redundancy	Yes, PoE Model, Option for PoE or DC Input			
Connector	3-pin Terminal block			
Reverse polarity protection	Yes			
PoE (PoE version only)	PoE PD, 802.3at, Mode A, @LAN4			
Mechanicals				
Casing material	Metal housing			
Dimension L x W x H (mm)	145 x 120 x 46			
Weight (g)	726			
Installation	DIN-Rail or Wall-Mount (optional kit)			
Ingress Protection Rating	IP30 protection			
Environment limits				
Operating Temperature	-40°C to +75°C (-22°F to +158°F)			
Storage Temperature	-40°C to +85°C (-40°F to +185°F)			
Ambient Relative Humidity	5% to 95% RH, (non-condensing)			



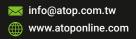








Internet Connection				
Authentication	CHAP/PAP/Auto			
Network				
IPv4/IPv6	DHCP server			
	DHCP Client/Static IP/PPPoE			
Connection Protocol/Service	Telnet, SSH, SCP, Http, Https, SNMP			
Industrial Protocol	NTP, DNS, 802.1Q VLAN, QoS, VRRP, MQTT			
Security				
Firewall	Access control list (ACL)			
	Port Forwarding			
	Attack Prevention (Inserted after Port forwarding)			
VPN	IPSEC, OPEN-VPN, LT2P, PPTP Server, GRE			
Management				
System Configuration	WEB, Telnet, SSH			
Firmware upgrade	WEB			
System Log	SD Storage, remote logger, local flash			
SNMP	SNMP v1/v2/v3			
Diagnostics	Ping, Traceroute, Nslookup			
Statistics				











REGULATORY APPROVALS

Regulatory Approval	s				
Safety	IEC/EN6236	IEC/EN62368-1			
EMC		FCC Part 15, Subpart B, Class A EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3			
Test		Item	Value	Level	
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	±6KV ±8KV	3	
IEC 61000-4-3	RS	Enclosure Port	3 (V/m) , 80-1000MHz 3 (V/m), 1-6GHz	3 2	
IEC 61000-4-4	EFT	DC Power Port Signal Port	±2.0KV@ 5.0kHz ±1.0KV @ 5.0kHz	3	
IEC 61000-4-5	Surge	DC Power Port Signal Port	Line-to-Line ±1KV Line-to-Earth ±2KV Line-to-Earth ±2.0KV	3 3 3	
IEC 61000-4-6	CS	DC Power Port Signal Port	3V, 150KHz to 80MHz, 80%AM 3V, 150KHz to 80MHz, 80%AM	2 2	
IEC 61000-4-8	PFMF	Enclosure	1A/m (r.m.s), 50Hz or 60Hz	1	
Shock	IEC 60068-2-	IEC 60068-2-27			
Drop/Freefall	IEC 60068-2-	IEC 60068-2-32			
Vibration	IEC 60068-2-	IEC 60068-2-64			
Others	REACH	RoHS, including 2015 amendment REACH Conflict-Mineral Free			
Warranty	5 years	5 years			











ORDERING INFORMATION

Ordering information				
Model	Part Number	Ethernet (RJ45)	РоЕ	
ER5805	1P1ER580500001G	1x WAN, 4x LAN	-	
ER5805P	1P1ER5805P0001G	1x WAN, 4x LAN	Yes	

Optional Accessories				
Model	Part Number	Description		
AD1048-24FS	50500481240001G	DIN-Rail Power Supply Input: 100-240VAC / 120-370VDC; Output: 2A@24VDC		
UV336-1230	50500361120001G	Power adapter Input: 100-240VAC; Output: 3A@12VDC; US plug		







