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*

Compact and Robust

- Dimensions (mm): 145 x 120 x 46
- Industrial EMC
- -40°C to +75°C Temp. Operation
- CE/FCC and Other Certifications

Quick Deployment & Management

- Various Remote Management Protocols

Reliable & Redundant Design

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

* Coming soon

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.
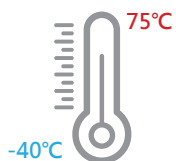
Quad-ARM Cortex A7 CPU

ER integrates an industrial-grade Quad-core 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.

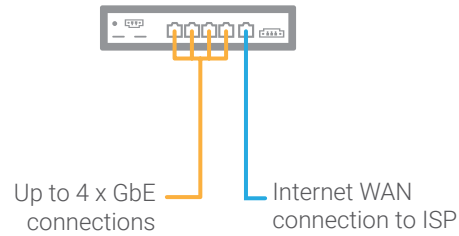### Harsh Environments

75°C
-40°C

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.
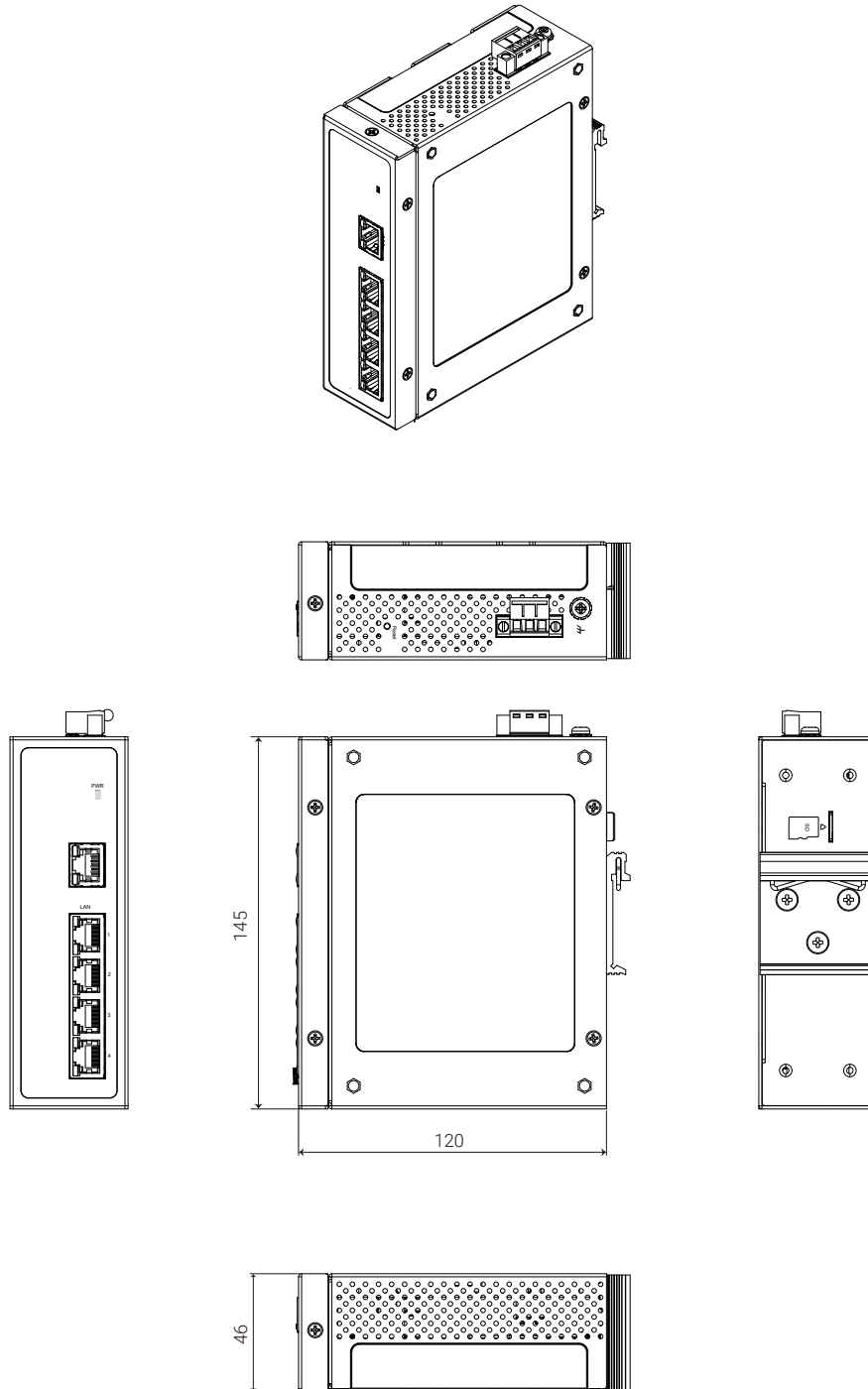
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APPLICATION

Up to 4 x GbE connections

Internet WAN connection to ISP

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 -40ºC up to +75ºC, to suit applications in any environment.

DIMENSIONS & LAYOUT

ER5805 SERIES: 145 x 120 x 46 mm

SPECIFICATIONS

Hardware Specifications		
Model Name	ER5805	
SOC		
CPU	ARM Cortex A7, Quad-Core	
Network Interfaces/Connectivity		
Ethernet ports	Standard	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3ab for 1000BaseT(X)
	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		
Voltage Input	DC Power : 12 ~ 48V	
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)	

Software Specifications	
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	
Statistics	Memory, WAN, LAN

REGULATORY APPROVALS

Regulatory Approvals				
Safety	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 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 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 60068-2-27			
Drop/Freefall	IEC 60068-2-32			
Vibration	IEC 60068-2-64			
Others	RoHS, including 2015 amendment REACH Conflict-Mineral Free			
Warranty	5 years			

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ORDERING INFORMATION

Ordering information

Model	Part Number	Ethernet (RJ45)	PoE
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

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