

SN3402

2-Port RS-232/422/485 Secure Device Server







An easy-to-use, secure, and reliable solution makes it easier to connect a wide range of serial devices to an IP-based Ethernet LAN in an instant. The ATEN SN3402 Secure Device Server provides simple, fast serial-to-Ethernet connectivity, allowing users to remotely access serial RS-232/422/485 devices from a PC located anywhere. With various reliable features, the SN3402 solution is ideal for commercial and industrial process control applications.



Serial-to-Ethernet



Surge Protection



1.5 kV Magnetic Isolation



3-step Web Console



Power Redundancy

Surge and Isolation Protection Ensure System Stability

Surge protection is a vital aspect of any facility's coordinated electrical protection to ensure safe and reliable operation. To this end, in addition to 1.5kV magnetic isolation protection for Ethernet signals, the SN3402 Secure Device Server features surge protection for serial, Ethernet, and power that protect against voltage spikes or uncontrolled increase in current. Furthermore, as well as industrial safety standards compliance, they are also tested to meet IEC 61000-4 surge wave form requirements to ensure system stability and reliability.





Level-up Device Security at Every Stage

The growing numbers of cyber attacks in the industrial IoT era has the potential to bring down systems and cause huge losses of time and money. In order to avoid potential vulnerability risks, enterprises need a multi-layered defense system to ensure secure data transmissions that include regular firmware upgrades, as well as various encrypted forms of authentication and access control. The SN3402 secure serial-to-Ethernet solution is equipped with security functions at every level, including network access control and user authentication, data integrity, and confidentiality. Furthermore, with an operation mode available for advanced security functions, you can acquire any field data needed and provide frontline protection.





User Authentication

- Secure web access with HTTPS
- Secure console access with SSHv2
- Local and third-party authentication
 (RADIUS)
- User privilege control

Encrypted Data Transmission and Confidentiality

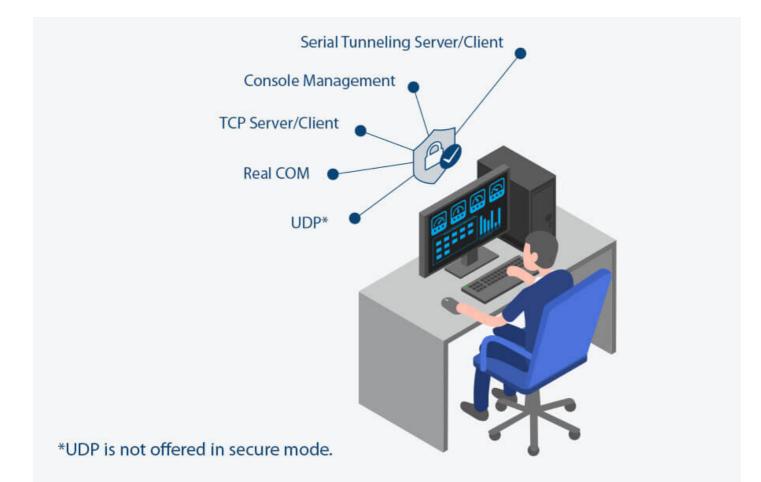
- Real COM
- TCP Server/Client
- Serial Tunneling Server/Client
- Console Management (SSHv2)

Network Access Control and Authentication • IP address filter

Vulnerability Management

- Administrator can determine which network services need to be enabled
- Regular firmware upgrades





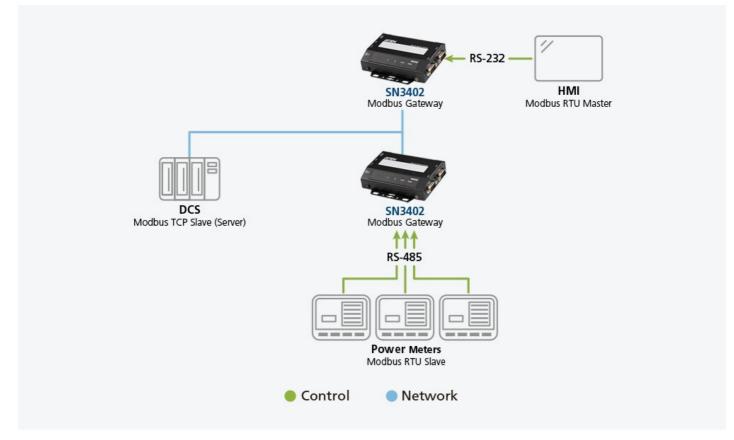
Comprehensive Secure Operation Modes

The SN3402 offers a broad choice of operation modes to help different types of serial devices to be seen on the network including Real COM, TCP, Serial Tunneling, Console Management, and UDP. With each operation mode the SN3402 is equipped with advanced secure functions to assist users in streamlining operations and ensuring serial data is securely transmitted. *UDP is not offered in secure mode.

Seamless and Cost-Effective Modbus Gateway

The SN3402 can be used as standard Modbus gateway for conversion between Modbus TCP and Modbus RTU / ASCII protocols. It can integrate Modbus serial slave devices seamlessly into an existing Modbus TCP network, thereby making them accessible to serial master devices.





Easy Setup with Web Console and Telnet/SSH Console

The SN3402 offers a 3-step setup web console for fast installation. Its browser access is supported via intuitive multi-language features that facilitate a quick setup and control of the devices in just three configuration steps to activate the application. This makes setup simple and fast, and users can complete it in an average of only one minute. Moreover, for bandwidth-sensitive applications, a Telnet/SSH console is also available as a low-bandwidth solution.





Intuitive web console for fast configuration



Terminal-based access via Telnet/SSH console for low-bandwidth applications



Ultra-Low Power Consumption

Operates in standby mode of less than 1W for power critical applications or cost saving.



Redundant Power

Ensures constant system availability and uptime in industrial environments.

Contact Us

Get a quote for this product or get in touch with our sales experts

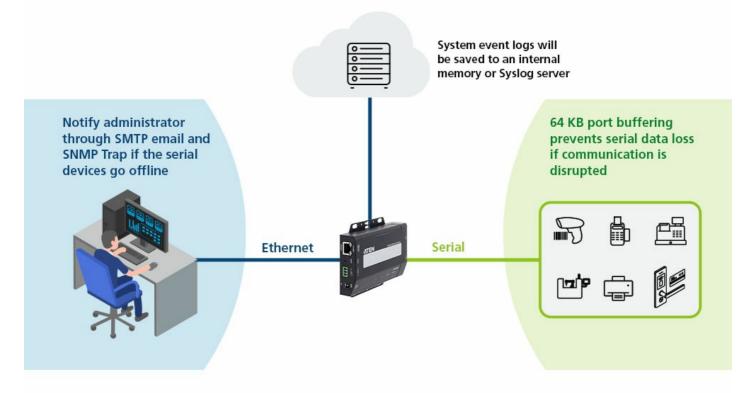
Get Quote





Easy to Troubleshoot

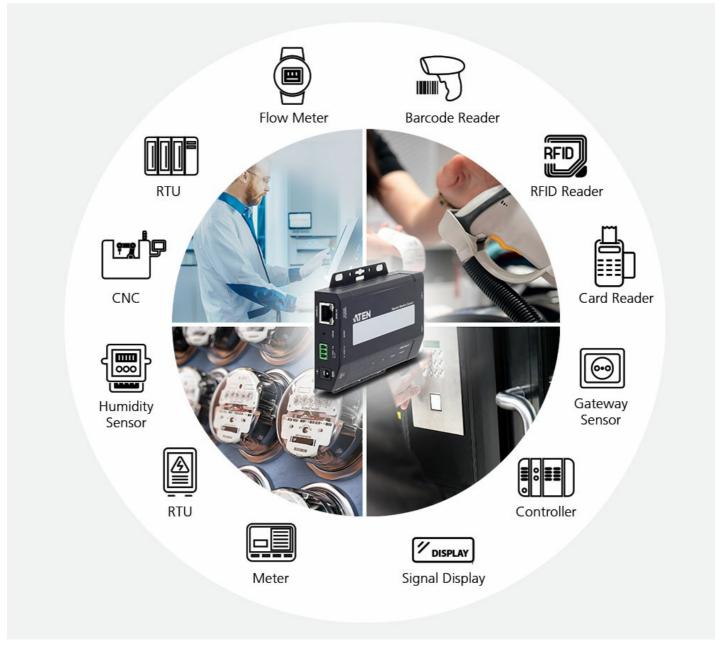
ATEN understands the seriousness of data loss and breaches. The SN3402 features 64 KB port buffering to prevent data loss in case a network is down, and event notifications will be sent automatically by SMTP email and SNMP Trap if serial devices go offline due to power failure, or trigger a user defined error. Moreover, system event logs are available to record and track operation history, and can be saved to internal memory or a Syslog server, so you can retrieve data for monitoring and troubleshooting at any time.



Target Applications

The SN3402 enables instant networking of serial devices and can be deployed in a variety of commercial applications and industrial process automation environments that require serial-to-Ethernet connectivity. These include POS, access control, SCADA systems, environment monitoring, sensor monitoring, device management, remote site management, and more.





Versatile Mounting Options

The SN3402 can be flexibly mounted in various installation environments, so you can easily configure them to your workplace. Mounting options include wall, desktop, DIN rail mounting, or rack mounting (with optional kit <u>VE-RMK1U</u>) as required.





Product Comparison

Talk to Our Experts

If you prefer to have ATEN contact you, please complete the form and a representative will be in touch with you shortly



×

First Name *	
Last Name *	
- Country *	
Company *	
Email *	
Phone Number	
- Customer Type *	
Job Title *	



Features

The SN3402 Secure Device Server is external IP-based network device that securely connects legacy RS-232/422/485 serial devices to an Ethernet network to be accessed remotely from a computer located anywhere, allowing users to expand the number of serial ports for any host computer over a network.

The SN3402 is especially suited for industrial process control applications, given the abundant use of the Supervisory Control and Data Acquisition (SCADA) systems across many industries for collecting data from PLCs, meters, and sensors via serial ports. The SN3402 bi-directionally translates data between serial and Ethernet formats, and facilitates access to the data from all data collection instruments from local and remote sites through an Ethernet network.

The SN3402 has a number of useful operation modes. It supports secure TCP server / client, secure serial tunneling server / client, secure Real COM, and console management modes for securitycritical applications, such as telecom, access control, and remote site management.

The SN3402 can be used as standard Modbus gateway to convert between Modbus TCP and Modbus RTU / ASCII protocols. It can integrate Modbus serial slave devices seamlessly into an existing Modbus TCP network and thereby make them accessible to serial master devices

Serial-to-Ethernet Connectivity

- 2 RS-232/422/485 serial ports for secured serial data over Ethernet transmission
 Software-configurable termination (120 Ω) and pull high/low resistor (1K ohms or 150K ohms) integrated to the RS-485 mode to avoid signal reflection
 Secured operation modes Secure Real COM, Secure TCP Server / Client, Secure Serial Tunneling Server / Client, Console Management (SSH), and Console Management Direct (SSH)
- Standard operation modes Real COM, TCP Server / Client, Serial Tunneling Server / Client, UDP, Console Management (Telnet), and Console Management Direct (Telnet) Real COM, Real TTY, and Fixed TTY drivers for Windows, Linux, and UNIX
- Convenient console management access via Java viewer (SSH / Telnet) or third-party clients such as PuTTY
- Easy console port access via Java viewer and Sun Solaris ready ("break-safe") Multiple users can simultaneously access the same port up to 16 connections per port
- Support Modbus gateway to convert between Modbus TCP and Modbus RTU / ASCII protocols

Hardware

- · Redundant power input (power jack and terminal block) for fail-safe power
- Surge protection for serial, Ethernet, and power
- DIN-rail mounting, wall mounting, rack mounting, and desktop installation available
- Supports baud rates of 110, 134, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200, 230.4k, 460.8k, 921.6k bps

Security

- · Supports secured login from browsers with TLS 1.2 data encryption and RSA 2048-bit certificates
- Configurable user permissions for port access and control
- Local and remote authentication and login Third-party authentication (e.g. RADIUS)
- · IP address filter for security protection

System Management

- · Browser access with an intuitive GUI design
- Web-based quick setup wizard for fast configuration
- Terminal-based access with a menu-driven UI via Telnet / SSH
- Online / Offline detection of connected serial devices (including terminal blocks) automatically sending event notifications when the devices are offline (e.g. power failure) for device status monitoring
 - System event logs and port logs will be saved to an internal memory or Syslog server
 - SNMP agent (v1 / v2c)
 - Event notification supports notification of SMTP email and SNMP Trap (v1 / v2c)
 - Backup / Restore system configuration and upgradeable firmware 64 KB port buffer prevents data loss when the network is down
 - NTP for time server synchronization
 - · Multi-language web-based GUI

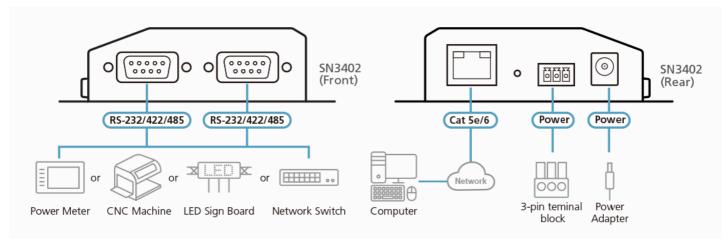
Specifications

Connectors		
Serial	2 x DB-9 Male	
Network	1 x RJ-45 Female	
Power	1 x DC Jack 1 x 3-pole Terminal Block	
Switches		
Reset	1 x Semi-recessed Pushbutton	
LEDs		
Power	1 (Green)	



Statis 1 (Yellow Green/Reij 10100 Migs 2 (Green/Charge) Ports 2 (Green/Charge) Porter Consumption 2 (Green/Charge) Porter Consumption Deckey 1000 (Porter Adaption SVDC, 100 240/AC 50-00 Hz) Porter Consumption Deckey 1.000 (Porter Adaption SVDC, 100 240/AC 50-00 Hz) Interfaces Deckey 1.000 (Porter Adaption SVDC, 100 240/AC 50-00 Hz) Porter Consumption Best20 Trin, PhD R (STD, TP, D DR, DCD, OND Rest20 Trin, PhD R (STD, PhD DR, STD, STD, STD, DCD, OND Rest20 Trin, PhD R (STD, PhD, DD, DD, DD, DD, DD, DD, DD, DD, DD,	гт	
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Input voltage DC Jack: SVDD (Power Adapter: SVDD , 100:240/VAC 50-60 Hz) Terminal Block: S-48 VDC Power Consumption DC Jack: SVDD (Power Adapter: SVDD , 100:240/VAC 50-60 Hz) Power Consumption DC Jack: SVDD (Power Adapter: SVDD , 100:240/VAC 50-60 Hz) Interfaces Environmental RS-232: Tuo, Tuo, RN, CTS, CTS, DTR, DSR, DCD, OND RS-409 Zer Duta-, Data, GND RS-409 Zer Duta-, ZER Ser MHA RS-500 Zer	10/100 Mbps	2 (Green/Orange)
Indiana Terminal Block: 94 VDC Power Consumption DCGW1.19W/BBTU Interfaces Serial R5-232: Tx0, Rx, Rx, OND R5-485-4x0: Txx1, Tx, Tx, Rx, Rx, OND R5-485-4x0: Txx1, Tx, Tx, Tx, Tx, Rx, Rx, OND R5-485-4x0: Txx1, Tx, Tx, Tx, Tx, Rx, Rx, OND R5-485-4x0: Txx1, Tx, Tx, Tx, Tx, Tx, Tx, Tx, Tx, Tx, Tx	Ports	2 (Green/Orange)
Interfaces Serial RS 222: TA, DA, RTS, CTS, DTR, DSR, DCD, GND RS 425: TA, TA, RA, RA, GND Serial RS 222: TA, TA, RA, RA, GND RS 425: CA, TA, TA, RA, RA, GND DR 545: Serial TA, TA, RA, RA, GND DR 545: Serial TA, TA, RA, RA, GND Serial TA, SA, SA, CHA Baud Rate: 10, 134, 159, 300, 500, 1200, 1800, 4200, 3200, 38400, 57600, 115200, 230400, 460800, 921600 bps Data Rate: 10, 134, 159, 300, 500, 1200, 1800, 4200, 300, 1200, 38400, 57600, 115200, 230400, 460800, 921600 bps Data Rate: 10, 134, 159, 300, 500, 1200, 1800, 4200, 300, 1200, 38400, 57600, 115200, 230400, 460800, 921600 bps Data Bais: 5, 6, 7, 8 Network 101100 Baie TX Builtin 15 XV Magnetic Iositation Protection Industrial Protecols Ethernet: Modus TRUASCI Mater, Modus RTUASCI Bare Max. 10 connections under Modus Mater mode and 32 connections under Modus Stave mode. Compliance Ethernet: Modus RTUASCI Mater, Modus RTUASCI Bare Max. 10 connections under Modus Mater mode and 32 connections under Modus Stave mode. Environmental Ethernet: Modus RTUASCI Mater, Modus RTUASCI Bare Max. 10 connections Under Modus Mater mode and 32 connections under Modus Stave mode. Environmental Ethernet: Modus RTUASCI Mater, Wir Airs WY, Airs W	Input voltage	
Senial RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND RS-422: Txx, Txx, Txx, Rxx, Rxx, GND RS-425: Xxx, Txx, Rxx, Rxx, GND RS-455: Xxx, Txx, Rxx, Rxx, GND Baud Rais: 10, 134, 160, 300, 600, 1200, 1600, 2400, 4600, 57600, 115200, 230400, 466800, 921600 bps Baud Rais: 11, 15, 2 Flow Control: RTS/CTS, DTR/DSR, XON/XOFF Network 10100 Base TX Builth 1.5 KV Magnetic Isolation Protection Industrial Protocols Ethernet: Modous TCP Client (Master), Modous TCP Server (Slave) Serial: Modous RTU/ASCII Master, Modous RTU/ASCII Silve Max: 15 connections under Modous Master mode and 32 connections under Modous Slave mode. Compliance EMC: EN 5503236 EMC: EN 5503236 EMC: EN 5503245 EMC: EN 5503245 EMC: EN 5000-415 EN 100 MHz: 3 V/m IEC 61000-4-4 EN: Modus PTU/ASCII Master, HV	Power Consumption	
R8-42: Txx, Txx, Txx, Rxx, Rxx, RXX, RND R8-454-WT Txx, Txx, Rxx, Rxx, RXD R8-454-WT Txx, Txx, Rxx, Rxx, RXD R8-454-WT Txx, Txx, Rxx, Rxx, RXD Baud False: 10, 124, 160, 200, 600, 1200, 1600, 2400, 4600, 7200, 9600, 15200, 38400, 57600, 115200, 230400, 460600, 921600 bps Baud False: 5, 6, 7, 40, Space, Mark Stop Bits: 1, 15, 2 Flow Control: RTS-CTS, DTR/DSR, XONXOFF Network 10/100 Base TX Built-1, 15, KV Magnetic Isolation Protection Industrial Protocols Ethernet: Modbus TOP Client (Master), Modbus TCP Server (Slave) Serial: Modbus TU/ASCIM Mater, Modbus TCP Server (Slave) Serial: Modbus TDP Client (Master), Modbus TU/ASCII Slave Max: 16 connections under Modbus R104/RSCII Slave Max: 15 Sconections under Modbus R14/RSCII Slave Max: 16 Connections under Modbus R14/RSCII Slave Max: 16 Connections under Modbus R14/RSCII Slave Built-15, Stop R2, FCC Part 15B Class A EM: CISPR 32, FCC Part 15B Class A EM: CISPR 32, FCC Part 15B Class A EG: E1000-4-4 ES: Signal: 0.5 KV EC: E1000-4-4 ES: Signal: 0.5 KV EC: E1000-4-4 ES: Signal: 0.5 KV ED: Contact = Tri-Power: 1.4 KV; Air; 8 KV ED: Contact = FTP-Power: 1.4 V: Signal: 0.5 KV EC	Interfaces	
Built-in 1.5 kV Magnetic Isolation Protection Industrial Protocols Ethernet: Modbus RTU/ASCII Master, Modbus TCP Server (Slave) Serial: Modbus RTU/ASCII Master, Modbus and 32 connections under Modbus Slave mode. Compliance EMC: EN 55032/35 EMI: CISPR 32, FCC Part 15B Class A EMS: IEC 61000-42 ESD: Contact: 4 KV; Air: 8 kV IEC 61000-43 RS: 80 MHz: 10 KHz: 3 V/m IEC 61000-43 RS: 80 MHz: 10 KHz: 3 V/m IEC 61000-44 EFT: Power: 1 KV; Signai: 0.5 kV IEC 61000-43 RS: 80 MHz: 10 KHz: 10 V/m; 10 kHz to 30 MHz: 3 to 1 V/m; 30 kHz to 80 MHz: 1 V/m IEC 61000-44 EFT: Power: 1 KV; Signai: 0.5 kV IEC 61000-44 EFT: Power: 1 KV; Signai: 0.5 kV IEC 61000-44 EFT: Power: 1 KV; Signai: 0.5 kV IEC 61000-45 CS: 150 kHz to 10 MHz: 3 V/m; 10 kHz to 30 MHz: 3 to 1 V/m; 30 kHz to 80 MHz: 1 V/m IEC 61000-44 EFT: Power: 1 KV; Signai: 0.5 kV Environmental 0-60°C Operating Temperature 0-60°C Humidity 5 - 95% RH, Non-condensing Physical Properties - Housing Metal Meight 0.21 kg (0.46 lb) Dimensions (L x W x H) 9.80 x11.70 x 2.60 cm (38 6 x 4.61 x 1.02 in.)	Serial	RS-422: Tx+, Tx-, Rx+, Rx-, GND RS-485-4w: Tx+, Tx-, Rx+, Rx-, GND RS-485-2w: Data+, Data-, GND Pull High/Low Resistor for RS-485: 1 kilo-ohm, 150 kilo-ohms Baud Rate: 110, 134, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200, 230400, 460800, 921600 bps Data Bits: 5, 6, 7, 8 Parity: None, Even, Odd, Space, Mark Stop Bits: 1, 1.5, 2
Serial: Modbus RTU/ASCII Master, Modbus RTU/ASCII Slave Max. 16 connections under Modbus Master mode and 32 connections under Modbus Slave mode. Compliance EMC: EN 55032/35 EMI: CISPR 32, FCC Part 15B Class A EMS: IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-45 ESD: r0 kHz: 10 MHz: 3 V/m; 10 kHz to 30 MHz: 3 to 1 V/m; 30 kHz to 80 MHz: 1 V/m IEC 61000-45 CSD: r0 kHz to 10 MHz: 3 V/m; 10 kHz to 30 MHz: 3 to 1 V/m; 30 kHz to 80 MHz: 1 V/m IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-42 ESD: Contact: 4 kV; Air: 8 kV Environmental Operating Temperature 0 - 60°C Humidity	Network	
Mi: CISPR 32, FCC Part 15B Class A EMS: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 BS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 BF: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV (Power Adapter), 1kV (Terminal Block); Signal: 1 kV IEC 61000-4-6 BF: FISO KHz to 10 MHz: 3 V/m; 10 kHz to 30 MHz: 1 v/m IEC 61000-4-7 BF: 80 KHz to 10 MHz: 3 V/m; 10 kHz to 30 MHz: 1 v/m IEC 61000-4-8 PFMF IEC 61000-4-8 PFMF IEC 61000-4-8 PFMF IEC 61000-4-9 IEC 61000-4-9 Safety: UL 60950-1 and UL 62368-1 standards compliant RoHS Safety: UL 60950-1 and UL 62368-1 standards compliant RoHS Safety: UL 60950-1 and UL 62368-1 standards compliant RoHS Safety: UL 60950-1 and UL 62368-1 standards compliant RoHS Safety: UL 60950-1 and UL 62368-1 standards compliant RoHS Storage Temperature -60 °C Humidity 5 ~ 95% RH, Non-condensing Physical Properties Housing Metal Weight 0.21 kg (0.46 lb) Dimensions (L x W x H) 9.80 x 11.70 x 2.60 cm (3.80 x 4.61 x 1.02 in.)	Industrial Protocols	Serial: Modbus RTU/ASCII Master, Modbus RTU/ASCII Slave
Operating Temperature 0 - 60°C Storage Temperature -40 - 75°C Humidity 5 ~ 95% RH, Non-condensing Physical Properties	Compliance	EMI: CISPR 32, FCC Part 15B Class A EMS: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV (Power Adapter), 1kV (Terminal Block); Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 10 MHz: 3 V/m; 10 kHz to 30 MHz: 3 to 1 V/m; 30 kHz to 80 MHz: 1 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs Safety: UL 60950-1 and UL 62368-1 standards compliant
Storage Temperature -40 - 75°C Humidity 5 ~ 95% RH, Non-condensing Physical Properties Housing Metal Weight 0.21 kg (0.46 lb) Dimensions (L x W x H) 9.80 x 11.70 x 2.60 cm (3.86 x 4.61 x 1.02 in.)	Environmental	
Humidity 5 ~ 95% RH, Non-condensing Physical Properties Housing Metal Weight 0.21 kg (0.46 lb) Dimensions (L x W x H) 9.80 x 11.70 x 2.60 cm (3.86 x 4.61 x 1.02 in.)	Operating Temperature	0 - 60°C
Physical Properties Housing Metal Weight 0.21 kg (0.46 lb) Dimensions (L x W x H) 9.80 x 11.70 x 2.60 cm (3.86 x 4.61 x 1.02 in.)	Storage Temperature	-40 - 75°C
Housing Metal Weight 0.21 kg (0.46 lb) Dimensions (L x W x H) 9.80 x 11.70 x 2.60 cm (3.86 x 4.61 x 1.02 in.)	Humidity	5 ~ 95% RH, Non-condensing
Weight 0.21 kg (0.46 lb) Dimensions (L x W x H) 9.80 x 11.70 x 2.60 cm (3.86 x 4.61 x 1.02 in.)	Physical Properties	
Dimensions (L x W x H) 9.80 x 11.70 x 2.60 cm (3.86 x 4.61 x 1.02 in.)	Housing	Metal
(3.86 x 4.61 x 1.02 in.)	Weight	0.21 kg (0.46 lb)
Installation Desktop, Wall Mounting, Din-Rail Mounting, Rack Mounting (with VE-RMK1U)	Dimensions (L x W x H)	
	Installation	Desktop, Wall Mounting, Din-Rail Mounting, Rack Mounting (with VE-RMK1U)
Others Rack mounting kit (VE-RMK1U) is sold separately.	Others	Rack mounting kit (VE-RMK1U) is sold separately.
Note For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.	Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.





ATEN International Co., Ltd.

3F, No.125, Sec. 2, Datong Rd., Sijhih District., New Taipei City 221, Taiwan Phone: 886-2-8692-6789 Fax: 886-2-8692-6767 www.aten.com E-mail: marketing@aten.com

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