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We Secure the Internet.

UTM-1 Edge N Industrial
Robust network security for industrial Ethernet and SCADA environments

UTM-1 Edge N Industrial Appliances

YOUR CHALLENGE

Manufacturing and assembly companies need a way to establish secure and scalable communications between machines located on their production floors and other geographically distributed network nodes. These industrial environments can be harsh—exposing networking equipment to extreme temperatures, humidity, dust and vibration. In addition, security threats from hackers and malware can expose networks and sensitive information to criminals and competitors. A rugged and reliable gateway solution is needed to provide secure connectivity in these harsh environments, while stopping malware attacks and blocking attempts to steal important data.

OUR SOLUTION

Check Point UTM-1™ Edge N Industrial appliances deliver proven security with reduced cost and complexity for use in industrial environments and with SCADA (supervisory control and data acquisition) equipment. These solid-state appliances deliver comprehensive protection—including firewall, IPS and anti-malware—while complying with industrial specifications for dust, heat and vibration. Robust performance and powerful central management provide unmatched value in a simple, all-in-one solution.

OVERVIEW

The new UTM-1 Edge N Industrial Appliance offers the highest performance in it's class with up to 1 Gbps of firewall throughput, up to 200 Mbps of VPN throughput, up to 180 Mbps of IPS throughput and up to 60,000 concurrent sessions. The appliance comes with six 10/100/1000BaseT RJ45 Ethernet ports with a 1000Base-F fiber option for the DMZ port.

Hardware

Robust mechanical design Solid-state UTM-1 Edge N Industrial appliances have no moving parts that could wear out over time, and support DIN rail, rack, and wall mounting. "The appliance has a low power consumption of 11.5W and supports concurrent AC and DC inputs via an external 12V AC power adaptor and the DC power connector that accepts voltages from +12V to +60V DC, -48V DC. The UTM-1 Edge N Industrial Appliance is certified to withstand the most demanding environments and conditions.

KEY FEATURES

- Integrated firewall, intrusion prevention, antivirus and IPsec VPN
- Centralized, large-scale management
- Industrial enclosure with flexible mounting and power input options
- Comprehensive gateway and connectivity features out of the box

KEY BENEFITS

- Provides robust security and connectivity
- Simplifies deployment and management
- Maximizes durability in extreme industrial environments
- Ensures around-the-clock business availability

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Certification	Description
IEC 61850-3	Certification for hardware design of IEC 61850 devices used in substations (Electrical, Temperature, Vibration)
IEEE 1613	IEEE standard detailing environmental and testing requirements for communications networking devices in electric power substations
FCC Part 15 B	Common testing standard for most electronic equipment.
CB	
EN 55022 Class B	EMI Test Limits and methods of measurement of radio interference characteristics of Information Technology Equipment.
CISPR 22 Class B	Determine compliance of ITE with applicable limits worldwide.
EN 61000-3-2	Harmonic tests
EN 61000-3-3 and EN 55024	Voltage Fluctuation test

UTM-1 EDGE N

1. 4 x 10/100/1000Base-T RJ45 LAN ports
2. 1 x 10/100/1000Base-T RJ45 or 1 x 1000Base-F DMZ ports
3. 1x10/100/1000Base-T RJ45 WAN port
4. Console RJ45 port
5. USB port
6. Reset button
7. +12V to 60V, -48V DC connector
8. External 12V DC power adaptor connection
9. DIN rail adaptor mount point (side mount point not shown)
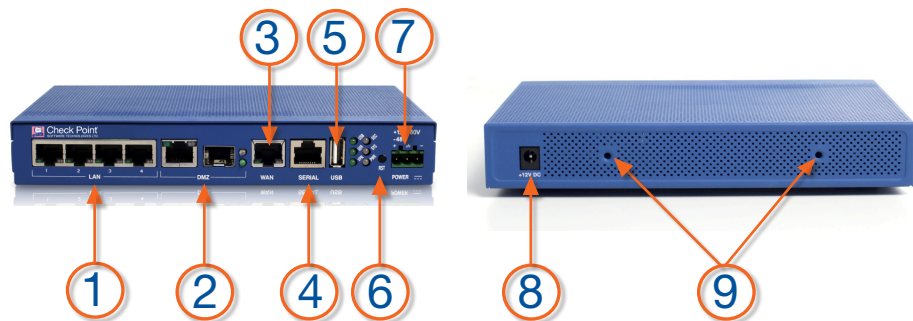
Security

Best-in-class integrated firewall and IPS UTM-1 Edge N Industrial appliances include the industry's most-proven firewall technology, based on the same Check Point technologies that secure the Fortune 100. Comprehensive network access control allows blocking of unwanted connections, while an advanced intrusion prevention system (IPS) ensures protection of remote sites from both known and unknown threats, such as Denial-of-Service, post scans and buffer overflows.

Secure Connectivity

IPsec VPN connectivity secures communications between site-to-site and remote locations. Support for multiple VPN clients, such as Check Point Endpoint Security VPN, SecureClient, SecuRemote and L2TP, offers flexibility for users.

Anti-malware and Messaging Security

Malware protection is integrated at the gateway, blocking worms and viruses before they enter the network. On-the-fly decompression of unlimited file sizes enables thorough scanning. Check Point Messaging Security blocks spam and provides comprehensive protection for an organizations' messaging infrastructure.

Web Filtering

Best-of-breed URL filtering services allow companies to define Web access policies. Access to potentially malicious Web sites containing spyware and viruses, as well as inappropriate Web content can be blocked.

Networking
High Availability

High-availability options ensure that security functions keep pace with business-critical applications and other network activity. UTM-1 Edge N Industrial appliances support WAN redundancy and load-balancing to ensure persistent connectivity and service availability. Should the broadband connection become unavailable, dialup support can provide a backup Internet connection.

Quality of Service (QoS)

Comprehensive traffic management parameters, such as weighted priorities, bandwidth guarantees and bandwidth limits, can guarantee QoS for business-critical or latency-sensitive traffic over a single Internet connection. Wireless Multimedia QoS allows companies to prioritize traffic from multiple audio, video and voice applications.

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Management

Centralized, Large-scale Management

Administrators can define security policy for the entire network including internal security, main sites, and remote sites from a single, centrally located Check Point Security Management or Multi-Domain Management console. With the addition of SmartProvisioning™, a profile-based management add-on designed for large-scale VPN and security installations, administrators can define a single security profile and apply it simultaneously to thousands of UTM-1 Edge N Industrial appliances, dramatically reducing deployment time and administrative overhead.

Quick and Easy Setup

UTM-1 Edge N Industrial appliances can be set up in less than 10 minutes, offering truly simple deployment to sites that have minimal IT resources. Even non-technical staff can easily perform initial setup and configuration.

Centralized, Automatic Updates

Optional Check Point Update Services provide updates for IPS protections, antivirus signatures, anti-spam database and Web-filtering services. Updates can be downloaded automatically and distributed to remote locations at preset intervals. Configuration and 'best practices' security policies are also included.

SPECIFICATIONS

UTM-1 Edge N Industrial	
Security Functionality	Firewall, VPN, Intrusion Prevention, Antivirus
Anti-spam, URL Filtering	Yes
On-board Management	Yes
Software Edition	Embedded NGX
Ethernet Ports	4 x 10/100/1000 Base-T RJ45 LAN, 1 x 10/100/1000Base-T RJ45 or 1 x 1000Base-F DMZ, 1 x 10/100/1000Base-T RJ45 WAN
Firewall Throughput	1 Gbps
VPN Throughput	200 Mbps
IPS Throughput	180 Mbps
Concurrent Sessions	60,000
VLANS	64
Physical Attributes	
Dimensions (width x height x depth)	200 x 32 x 128 mm (7.87 x 1.26 x 5.04 inches)
Weight	Without DIN rail adapter: 678 g (1.49 lbs); with DIN rail adapter: 778 g (1.71 lbs)
Retail Box Dimensions (width x height x depth)	290 x 250 x 76 mm (11.42 x 3.14 x 9.84 inches)
Retail Box Weight	1.5 kg (3.3 lbs)
MTBF	300,129 hours at 30ºC
DC Power Input	
Power Supply Nominal Input	+12V DC@2A, +12 to +60V DC@2A to 0.4A, -48V DC@0.5A
12V Power Supply Unit	
Power Supply Nominal Input	100 ~ 240 VAC; 50 ~ 60Hz
Power Supply Nominal Output	12V DC @ 2A
Max. Power Consumption	9W (11.5W including USB devices)
Certifications	
Safety	IEC 60950-1, EN 60950-1, UL60950-1, CAN/CSA-C22.2 No. 60950-1, Quality, ISO 9001, 9002, 14001
Emissions	EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 55024, IEC 61850-3, IEEE 1613, FCC Part 15 B, CISPR 22 Class B, ICES-003, Class B, VCCI (V-3/V-4), AS/NZS 3548A Class B
Environment	RoHS & WEEE

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Environmental Conditions	
Storage	-40ºC to 70ºC
Operation	-5ºC to 55ºC (for DC input - up to 55 ºC, for adapter DC input - up to 40 ºC)
Humidity (storage and operation)	5% to 95% (non-condensed)

UTM-1 EDGE N INDUSTRIAL PACKAGES	
Base Systems	**SKU**
Check Point UTM-1 Industrial Edge N Series Appliance for 8 Users	CPUTM-EDGE-N8-IND
Check Point UTM-1 Industrial Edge N Series Appliance for 16 Users	CPUTM-EDGE-N16-IND
Check Point UTM-1 Industrial Edge N Series Appliance for 32 Users	CPUTM-EDGE-N32-IND
Check Point UTM-1 Industrial Edge N Series Appliance for Unlimited Users	CPUTM-EDGE-NU-IND
Check Point One Year Total Security UTM-1 Edge Industrial N Series Appliance—8 users	CPUTM-EDGE-N8-TS-IND
Check Point One Year Total Security UTM-1 Edge Industrial N Series Appliance—16 users	CPUTM-EDGE-N16-TS-IND
Check Point One Year Total Security UTM-1 Edge Industrial N Series Appliance—32 users	CPUTM-EDGE-N32-TS-IND
Check Point One Year Total Security UTM-1 Edge Industrial N Series Appliance—Unlimited users	CPUTM-EDGE-NU-TS-IND
Total Security for UTM-1 Edge	
Description	**SKU**
Total Security for UTM-1 Edge, unlimited nodes	CPUTM-EDGE-SDTS-U
Total Security for UTM-1 Edge, 32 nodes	CPUTM-EDGE-SDTS-32
Total Security for UTM-1 Edge, 16 nodes	CPUTM-EDGE-SDTS-16
Total Security for UTM-1 Edge, 8 nodes	CPUTM-EDGE-SDTS-8
ACCESSORIES	
Description	**SKU**
Replacement 12V DC Power Supply for N Series Appliances	CPWR-12V-GN-KIT
Embedded NGX USB Connectivity Module for 3G Cellular Networks	CPUTM-MODEM-USB-N3G-EU-US
Rack Mount Shelf Kit	CPUTM-EDGE-XG-IND-RM-KIT

UTM-1 Edge N Industrial Package Components