FortiGate Rugged®-100C

Integrated Security for Industrial Control Systems

Today's network security threats have evolved into highly sophisticated assaults using multiple attack vectors to penetrate networks and steal valuable information. Industrial control systems face an increasing number of targeted attacks and are especially vulnerable to coordinated assults with the potential to cause wide scale outages. Traditional security solutions are intended for an office environment and are not designed to operate in harsh conditions. The FortiGate Rugged-100C is an industrially hardened, all-in-one security appliance that delivers enterprise-class threat protection for securing critical control networks against malicious attacks.

Ruggedized Protection for Harsh Environments

FortiGate Rugged-100C meets required performance and reliability standards for operating in the demanding substation setting. It is designed to operate reliably in harsh electrical and environmental conditions, including high levels of electrial and radio-frequency interference and wide ambient temperature ranges. With limited access and remote resources, security solutions for industrial control networks must be simple to install, connect and maintain. The FortiGate Rugged-100C installs in minutes, automatically downloading regular updates to protect against the latest viruses, network vulnerabilities, worms, spam and phishing attacks, and malicious websites with no administrator intervention.

The Power of Unified Threat Management

Fortinet's market-leading security technology and research results in appliances providing unmatched protection against today's sophisticated multi-vector threats. The FortiGate Rugged-100C integrates multiple attack recognition technologies into a single device, including firewall, IPSec and SSL VPN, application control, intrusion prevention, antivirus, antimalware, antispam, P2P security and web filtering. Simple per-device pricing, an integrated management console, and remote management capabilities significantly reduce procurement, deployment and administration costs.

The FortiGate Product Family: Integrated Multi-Threat Protection

The FortiGate product family provides cost-effective, comprehensive protection against network, content, and application-level threats. It defends your environment from complex, sophisticated attacks without degrading network availability and affecting application performance.

FortiGate platforms combine the purpose-built FortiOS™ security operating system with custom FortiASIC processors and other hardware to provide a comprehensive and high-performance array of security and networking functions.

The FortiGate product family delivers the highest level of network, content, and application security for enterprises of all sizes, while reducing total cost of ownership. With Fortinet, you deploy the network security you need to protect your intellectual property, preserve the privacy of critical customer information, and maintain regulatory compliance.

Feature	Benefit
Ruggedized Design	Compliance with international substation automation standards, IEC 61850-3 and IEEE 1613, and fanless, cable-less design ensure reliable operation in harsh industrial environments.
Consolidated Security Architecture	FortiGate consolidated security offers better protection and lower cost of ownership than multiple point security products.
Simple Licensing	Hassle-free unlimited user licensing increases ease of deployment and maintenance.

Technical Specifications	FortiGate Rugged-100C
HARDWARE SPECIFICATIONS	
10/100/1000BaseTX Interfaces (RJ-45)	2
10/100BaseTX Interfaces (RJ-45)	4
100BASE-FX Interfaces (SC)	4
USB (Server / Client)	5 / 0
RJ-45 Serial Console	2
SYSTEM PERFORMANCE	
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	2,000 / 1,000 / 180 Mbps
Firewall Latency (64 byte UDP packets)	34 µs
Firewall Throughput (Packets Per Second)	270 Kpps
Concurrent Sessions (TCP)	2.5 Million
New Sessions/Sec (TCP)	22,000
Firewall Policies (System / VDOM)	10,000 / 5,000
IPSec VPN Throughput (512 byte packets)	60 Mbps
Gateway-to-Gateway IPSec VPN Tunnels (System / VDOM)	1,500 / 1,500
Client-to-Gateway IPSec VPN Tunnels	5,000
SSL-VPN Throughput	100 Mbps
Concurrent SSL-VPN Users (Recommended Max)	200
IPS Throughput	950 Mbps
Antivirus Throughput (Proxy Based / Flow Based)	300 / 700 Mbps
Virtual Domains (Default / Max)	10 / 10
Max Number of FortiAPs	32
Max Number of FortiTokens	1,000
High Availability Configurations	Active/Active, Active/Passive, Clustering
Unlimited User Licenses	Yes

All performance values are "up to" and vary depending on system configuration. Antivirus performance is measured using 44 Kbyte HTTP files. IPS performance is measured using 1 Mbyte HTTP files.

Technical Specifications	FortiGate Rugged-100C
DIMENSIONS AND POWER	
Height	3.4 in (88 mm)
Width	17.3 in (440 mm)
Length	11.0 in (280 mm)
Weight	14.3 lb (6.5 kg)
Rack Mountable	Yes (Attachable Ears)
AC Power	100 - 240 VAC, 47 - 63 Hz
DC Power	106 - 250 VDC
Current (Max)	250 VAC / 2A
Power Consumption (AVG / Max)	45 / 54 W
Heat Dissipation	154 BTU/h
Redundant Power Supply	No
ENVIRONMENT AND COMPLIANCE	
Operating temperature	-4 to 158 deg F (-20 to 70 deg C)
Storage temperature	-13 to 158 deg F (-25 to 70 deg C)
Humidity	95% @ 40 C non-condensing
Compliance	IEC 61850-3 (EMC), IEEE 1613 Class 2, FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB
Certifications	ICSA Labs: Firewall, IPSec, IPS, Antivirus, SSL VPN

FortiGate Rugged-100C Front

FortiGate Rugged-100C Back

Ordering Information	
Product	SKU
FortiGate Rugged-100C	FGR-100C

FortiGuard® Security Subscription Services deliver dynamic, automated updates for Fortinet products. The Fortinet Global Security Research Team creates these updates to ensure up-to-date protection against sophisticated threats. Subscriptions include antivirus, intrusion prevention, web filtering, antispam, vulnerability and compliance management, application control, and database security services.

FortiCare™ Support Services provide global support for all Fortinet products and services. FortiCare support enables your Fortinet products to perform optimally. Support plans start with 8x5 Enhanced Support with "return and replace" hardware replacement or 24x7 Comprehensive Support with advanced replacement. Options include Premium Support, Premium RMA, and Professional Services. All hardware products include a 1-year limited hardware warranty and 90-day limited software warranty.

ICSAlabs CERTIFIED SSL VPN
ICSAlabs CERTIFIED FIREWALL-CORPORATE
ICSAlabs CERTIFIED ANTI-VIRUS
ICSAlabs CERTIFIED NETWORK IPS
ICSAlabs CERTIFIED IPSEC-BASIC

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