



FG401-022

**32-PORT L3 MILITARY FIREWALL
ETHERNET SWITCH**



- 16 x 1GbE RJ45 Port
- 4 x 1GbE/10GbE SFP+, 4 x 10GbE SFP+ Ultra Low Latency, and 8 x 1GbE SFP Port
- Scalable L2 and L3 Ethernet Switch
- Support FortiOS and FortiGuard Security Service
- 2 x MGMT/HA Port + 1 x Console RJ45 Port
- Operating Temperature 0°C to 45°C
- MIL-STD-810 Standards for Shock and Vibration

Introduction

As battlefield networks become increasingly interconnected, mission-critical data demands robust protection. **The FG401-D22, a 16-Port L3 Military Firewall Ethernet Switch** (4 Ports 1GbE/10GbE SFP+, 4 Ports 10GbE SFP+ Ultra Low Latency, and 8 Ports GbE SFP), serves as a trusted cyber defense backbone, seamlessly connecting and safeguarding mission systems, sensors, radios, and control devices. Engineered for extreme operational environments, the rugged military switch combines advanced network security, traffic management, and system resilience to ensure secure, uninterrupted data exchange across demanding tactical missions.

FortiOS-Powered Secure Firewall Protection

Powered by FortiOS, Fortinet's proven security operating system, the FG401-D22 delivers advanced cyber protection and secure networking to tactical edge environments. By integrating next-generation firewalling, intrusion prevention (IPS), VPN, zero-trust access, network segmentation, and centralized security management into a unified platform, it streamlines security operations while safeguarding mission-critical communications and network infrastructure. Engineered for scalability, resilience, and high-performance operation, the FG401-D22 enables defense organizations to enforce comprehensive zero-trust security policies without compromising mission agility, operational readiness, or network performance.

Support FortiGuard Services:

- Network and File Security
- Web / DNS Security
- SaaS and Data Security
- Zero-Day Threat Prevention
- OT Security

Specifications

SYSTEM

IPS Throughput	12 Gbps
NGFW Throughput	10 Gbps
Threat Protection Throughput	9 Gbps
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	79.5 / 78.5 / 70 Gbps
IPv6 Firewall Throughput (1518 / 512 / 64 byte, UDP)	79.5 / 78.5 / 70 Gbps
Firewall Latency (64 byte, UDP)	4.19 μ s / 2.5 μ s (based on Ultra Low Latency (ULL) ports)
Firewall Throughput (Packet per Second)	105 Mpps
Concurrent Sessions (TCP)	7.8 Million
New Sessions/Second (TCP)	500,000
Firewall Policies	10,000
IPsec VPN Throughput (512 byte)	55 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	2,000
Client-to-Gateway IPsec VPN Tunnels	50,000
SSL-VPN Throughput	3.6 Gbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	5,000
SSL Inspection Throughput (IPS, avg. HTTPS)	8 Gbps
SSL Inspection CPS (IPS, avg. HTTPS)	6,000
SSL Inspection Concurrent Session (IPS, avg. HTTPS)	800,000
Application Control Throughput (HTTP 64K)	28 Gbps
CAPWAP Throughput (HTTP 64K)	65 Gbps

Virtual Domains (Default / Maximum)	10/10
Maximum Number of Switches Supported	72
High Availability Configurations	Active-Active, Active-Passive, Clustering

OPERATING SYSTEM

Operating System	Support FortiOS Security Operating System
------------------	---

SECURITY SERVICES

Security Services	Support FortiGuard AI-Powered Security Services
-------------------	---

I/O PORT

Ethernet Port	16 x RJ45 including: 4 x 10GbE SFP+ 4 x 10GbE SFP+ Ultra Low Latency 8 x 1GbE SFP
Management Ports	2 x RJ45 (MGMT/HA)
Console	1 x RJ45
USB	1 x USB Type A
Power Input	1 x DC-IN with D38999 Connector

POWER REQUIREMENT

Power Input	160-420 VDC
Typical Power Consumption	196.9 W

MECHANICAL

Dimensions	430 x 500 x 88 mm (W x D x H)
Weight	10 kg
Chassis	Aluminum
Finish	Anodic Aluminum Oxide
Cooling	Air Cooling

ENVIRONMENTAL

Operating Temp.	0°C to 45°C (Ambient with Air Flow)
Storage Temp.	-35°C to +70°C
Relative Humidity	5% to 90%, Non-Condensing

MIL-STD-810 ENVIRONMENT TESTING STANDARDS

Method 514, Vibration	Category 24/Non-Operating (Category 20 & 24, Vibration)
Method 514, Vibration	Category 20/ Operating (Category 20 & 24, Vibration)
Method 516, Shock:	Procedure V Non-Operating (Mechanical Shock)
Method 516, Shock:	Procedure I Operating (Mechanical Shock)

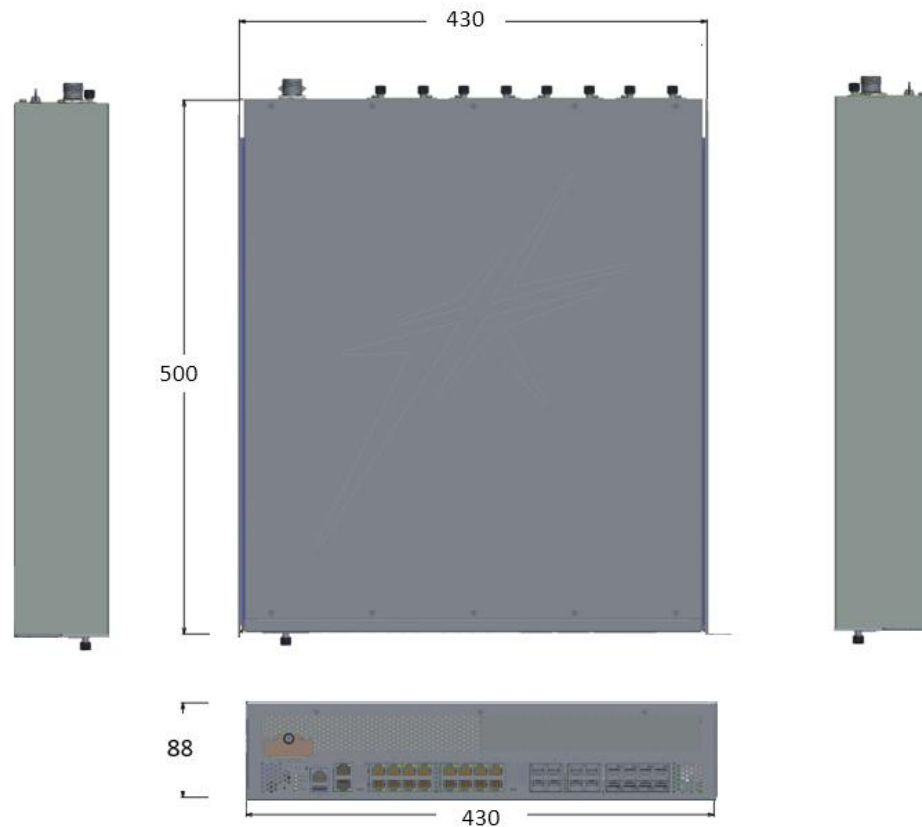
Ordering Information

FG401-D22 - 18 x GbE RJ45 ports (including 1 x MGMT port, 1 x HA port, 16 x switch ports), 8 x GbE SFP slots, 8 x 10GbE SFP+ slots, Operating Temperature 0°C to 45°C, Power Input 160-420 VDC, MIL-STD-461 EMI Filter (Optional)

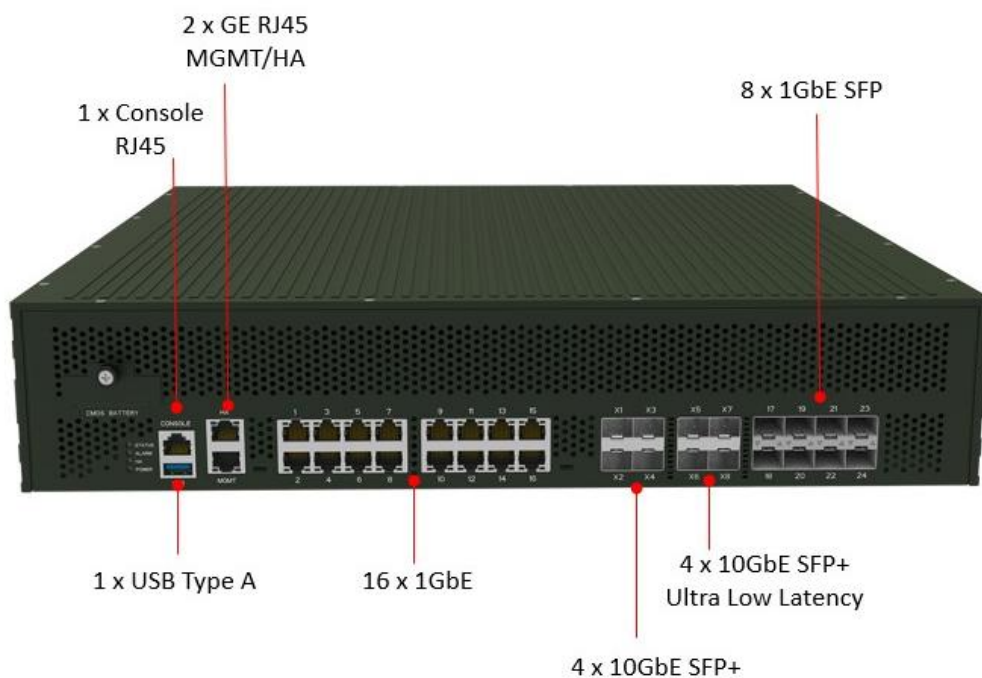
FG401-D28 - 18 x GbE RJ45 ports (including 1 x MGMT port, 1 x HA port, 16 x switch ports), 8 x GbE SFP slots, 8 x 10GbE SFP+ slots, Operating Temperature 0°C to 45°C, Power Input 18-36 VDC, MIL-STD-461 EMI Filter (Optional)

FG401-A10 - 18 x GbE RJ45 ports (including 1 x MGMT port, 1 x HA port, 16 x switch ports), 8 x GbE SFP slots, 8 x 10GbE SFP+ slots, Operating Temperature 0°C to 45°C, Power Input 100-240 VAC/ Redundant

Dimensions



Appearance



This datasheet is for marketing purposes only and does not constitute a warranty. All specifications, dimensions, and data are subject to change without notice. For the latest specifications and updates, please contact your 7STARLAKE representatives.