











- [illegible]





# UniFi Enterprise Fortress Gateway (EFG)

## Technical Specifications

### Physical Specifications

|             |                                            |
|-------------|--------------------------------------------|
| Dimensions  | 442.4 × 43.7 × 325 mm (17.4 × 1.7 × 12.8") |
| Form Factor | Rack mount (1U)                            |
| Weight      | 6.5 kg (14.3 lb)                           |
| Enclosure   | Aluminium CNC, SGCC steel                  |

### Capacity & Performance

|                             |           |
|-----------------------------|-----------|
| Managed UniFi Devices       | 500+      |
| Simultaneous Users          | 5,000+    |
| IDS/IPS Throughput          | 12.5 Gbps |
| Concurrent Sessions         | 1,000,000 |
| New Sessions / Second       | 71,000    |
| SSL/TLS Inspection Sessions | 10,000    |

### Ports

|                   |                             |
|-------------------|-----------------------------|
| 25G SFP28         | 2 (25G/10G/1G)              |
| 10G SFP+          | 2 (10G/1G)                  |
| 2.5 GbE RJ45      | 2 (2.5G/1G/100M/10M)        |
| Max WAN Ports     | 5                           |
| Default WAN Ports | 1×25G SFP28, 1×2.5 GbE RJ45 |

### Security Features

|                                 |         |
|---------------------------------|---------|
| Stateful Firewall               | Yes     |
| Layer 7 Application Firewall    | Yes     |
| IPS/IDS Signatures              | 95,000+ |
| SSL Inspection & URL Filtering  | Yes     |
| Content Filtering & Ad Blocking | Yes     |
| VLAN/Subnet Segmentation        | Yes     |

### VPN & SD-WAN

|                       |                                 |
|-----------------------|---------------------------------|
| License-Free SD-WAN   | Yes                             |
| Supported VPNs        | IPsec, OpenVPN, WireGuard, L2TP |
| VPN Server Throughput | Up to 1.2 Gbps                  |
| Site-to-Site VPN      | Up to 1.1 Gbps                  |

## Networking Features

|                          |           |
|--------------------------|-----------|
| Multi-WAN Load Balancing | Yes       |
| High Availability (VRRP) | Yes       |
| Dynamic Routing          | OSPF, BGP |
| Advanced NAT & QoS       | Yes       |
| IPv6 Support             | Yes       |

## Hardware & Power

|                       |                              |
|-----------------------|------------------------------|
| Processor             | 18-core ARM® v8.2 @ 2 GHz    |
| Max Power Consumption | 82 W                         |
| Power Supply          | 2 × Hot-swappable 150 W CRPS |
| Input Voltage         | 100–240 V AC                 |
| Heat Dissipation      | 280 BTU/hr                   |

## Environmental & Compliance

|                       |                          |
|-----------------------|--------------------------|
| Operating Temperature | 0–40 °C                  |
| Operating Humidity    | 5–95% non-condensing     |
| ESD/EMP Protection    | Air ±8 kV, Contact ±4 kV |
| Certifications        | CE, FCC, IC, Anatel      |
| NDAA Compliant        | Yes                      |

## Software & Management

|                       |                         |
|-----------------------|-------------------------|
| Management Interfaces | Ethernet, Bluetooth     |
| Display               | 1.3" Touchscreen        |
| Reset Button          | Factory Reset           |
| Mobile App (iOS)      | UniFi iOS v10.16.2+     |
| Mobile App (Android)  | UniFi Android v10.17.2+ |

## Device Information Sheet

### General Overview

| Specification      | Details                                      |
|--------------------|----------------------------------------------|
| Dimensions         | 442.4 × 43.7 × 325 mm (17.4 × 1.7 × 12.8 in) |
| Form Factor        | 1U Rack Mount                                |
| Weight             | 5.5 kg (12.13 lb)                            |
| Enclosure Material | Aluminium CNC, SGCC Steel                    |
| Mount Material     | SGCC Steel                                   |
| LCM Display        | 1.3" Touchscreen                             |

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### UniFi Application Suite

#### Application Supported

|         |   |
|---------|---|
| Network | ✓ |
| Protect | ✓ |
| Access  | ✓ |
| Talk    | ✓ |
| Connect | ✓ |

| Specification                | Value          |
|------------------------------|----------------|
| Managed UniFi Devices        | 750+           |
|                              | 100 × HD       |
| Managed Cameras              | 60 × 2K        |
|                              | 40 × 4K        |
| Managed Access Hubs          | 200            |
| Simultaneous Connected Users | 7,500+         |
| Maximum WAN Ports            | 8              |
|                              | 1 × 25G SFP28  |
| Default WAN Ports            | 1 × 10GbE RJ45 |

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### Port Configuration

| Port Type    | Quantity | Speed                       |
|--------------|----------|-----------------------------|
| 1GbE RJ45    | 2        | 1G / 100M / 10M             |
| 10GbE RJ45   | 8        | 10G / 5G / 2.5G / 1G / 100M |
| 10G SFP+     | 2        | 10G / 1G                    |
| 25G SFP28    | 2        | 25G / 10G / 1G              |
| Console Port | 1        | Console                     |

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## Performance

| Specification | Value |
|---------------|-------|
|---------------|-------|

|                    |         |
|--------------------|---------|
| IDS/IPS Throughput | 25 Gbps |
|--------------------|---------|

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## Redundancy

- ☐ Shadow Mode (VRRP) Gateway Failover
  - ☐ DC Power Backup
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## Security Features

| Feature                                    | Supported             |
|--------------------------------------------|-----------------------|
| Stateful Firewall                          | ✓                     |
| Layer 7 Application Firewall               | ✓                     |
| DPI & Traffic Identification               | ✓                     |
| Zone-Based Firewall                        | ✓                     |
| Content Filtering                          | ✓                     |
| Intrusion Detection & Prevention (IDS/IPS) | ✓                     |
| Ad Blocking                                | ✓                     |
| IDS/IPS Signatures                         | 55,000+ (CyberSecure) |

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## VPN & SD-WAN

### SD-WAN

- ☐ License-Free SD-WAN ✓

### Site-to-Site VPN

- ☐ Site Magic ✓
- ☐ IPsec ✓
- ☐ OpenVPN ✓

### VPN Server

- ☐ Identity Endpoint One-Click VPN ✓
- ☐ Teleport Zero-Configuration VPN ✓
- ☐ WireGuard ✓
- ☐ OpenVPN ✓
- ☐ L2TP ✓

### VPN Client

- ☐ OpenVPN ✓
  - ☐ WireGuard ✓
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## Networking Features

| Feature                              | Supported |
|--------------------------------------|-----------|
| Multi-WAN Load Balancing             | ✓         |
| Shadow Mode (VRRP) High Availability | ✓         |
| LACP Port Aggregation                | ✓         |
| OSPF                                 | ✓         |
| BGP                                  | ✓         |
| Advanced QoS                         | ✓         |
| mDNS                                 | ✓         |
| Advanced NAT                         | ✓         |
| Integrated RADIUS Server             | ✓         |
| RADIUS over TLS (RadSec)             | ✓         |
| UniFi LTE Backup                     | ✓         |
| Internet Quality & Outage Reporting  | ✓         |
| Policy-Based WAN & VPN Routing       | ✓         |
| Custom DHCP Server                   | ✓         |
| IPv6 ISP Support                     | ✓         |
| IGMP Proxy                           | ✓         |
| All Traffic Flows                    | ✓         |
| MAC Address Table Size               | 32,000    |

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## Hardware Specifications

| Specification             | Value                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------|
| NVR Storage               | 2 × 3.5" HDD Bays                                                                          |
| Built-in Storage          | Integrated 128 GB SSD                                                                      |
| Maximum Power Consumption | 100 W                                                                                      |
| Power Method              | Universal AC Input (100–240V AC, 3A Max., 50/60 Hz)<br>USP-RPS DC Input (11.5V DC, 13.05A) |
| Power Supply              | Internal 150 W AC/DC                                                                       |
| Supported Voltage         | 100–240V AC                                                                                |
| Heat Dissipation          | 342 BTU/hr                                                                                 |
| Processor                 | Octa-core ARM® v9 @ 2.1 GHz                                                                |
| System Memory             | 16 GB                                                                                      |

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## Management & Indicators

### Management Interfaces

- ☐ Ethernet
- ☐ Bluetooth

#### Status LEDs

- ☐ Ethernet ✓
- ☐ SFP+ ✓
- ☐ SFP28 ✓
- ☐ RPS ✓
- ☐ HDD ✓

#### Controls

- ☐ Factory Reset Button

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#### Environmental

| Specification         | Value                      |
|-----------------------|----------------------------|
| Operating Temperature | 0–40°C (32–104°F)          |
| Operating Humidity    | 5–95% (Non-condensing)     |
| ESD/EMP Protection    | Air: ±8 kV, Contact: ±4 kV |
| NDAA Compliant        | ✓                          |

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#### Certifications

- ☐ CE
- ☐ FCC
- ☐ IC

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#### Software Requirements

| Platform           | Minimum Version   |
|--------------------|-------------------|
| UniFi iOS™ App     | v10.34.0 or later |
| UniFi Android™ App | v10.37.1 or later |

## Device Information Sheet

### General Overview

| Specification      | Details                                               |
|--------------------|-------------------------------------------------------|
| Dimensions         | 212.8 × 127.6 × 30 mm (8.4 × 5 × 1.2 in)              |
| Form Factor        | Compact Desktop                                       |
| Weight             | 675 g (1.5 lb) without SSD<br>734 g (1.6 lb) with SSD |
| Enclosure Material | Polycarbonate                                         |
| LCM Display        | 0.96" Status Display                                  |

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### UniFi Application Suite

#### Application Supported

|         |   |
|---------|---|
| Network | ✓ |
| Protect | ✓ |
| Access  | ✓ |
| Talk    | ✓ |
| Connect | ✓ |

| Specification                | Value                          |
|------------------------------|--------------------------------|
| Managed UniFi Devices        | 50+                            |
|                              | 15 × HD                        |
| Managed Cameras              | 8 × 2K<br>5 × 4K               |
| Managed Access Hubs          | 50                             |
| Simultaneous Connected Users | 500+                           |
| Maximum WAN Ports            | 6                              |
| Default WAN Ports            | 1 × 10G SFP+<br>1 × 10GbE RJ45 |

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### Port Configuration

| Port Type   | Quantity | Speed                  |
|-------------|----------|------------------------|
| 2.5GbE RJ45 | 4        | 2.5G / 1G / 100M / 10M |
| 10GbE RJ45  | 1        | 10G / 2.5G / 1G        |
| 10G SFP+    | 2        | 10G / 1G               |

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### Performance

| Specification      | Value  |
|--------------------|--------|
| IDS/IPS Throughput | 5 Gbps |

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## Security Features

| Feature                                    | Supported             |
|--------------------------------------------|-----------------------|
| Stateful Firewall                          | ✓                     |
| Layer 7 Application Firewall               | ✓                     |
| DPI & Traffic Identification               | ✓                     |
| Zone-Based Firewall                        | ✓                     |
| Content Filtering                          | ✓                     |
| Intrusion Detection & Prevention (IDS/IPS) | ✓                     |
| Ad Blocking                                | ✓                     |
| VLAN/Subnet Traffic Segmentation           | ✓                     |
| IDS/IPS Signatures                         | 55,000+ (CyberSecure) |

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## VPN & SD-WAN

### SD-WAN

- ☐ License-Free SD-WAN ✓

### Site-to-Site VPN

- ☐ Site Magic ✓
- ☐ IPsec ✓
- ☐ OpenVPN ✓

### VPN Server

- ☐ Identity Endpoint One-Click VPN ✓
- ☐ Teleport Zero-Configuration VPN ✓
- ☐ WireGuard ✓
- ☐ OpenVPN ✓
- ☐ L2TP ✓

### VPN Client

- ☐ OpenVPN ✓
  - ☐ WireGuard ✓
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## Networking Features

| Feature                  | Supported |
|--------------------------|-----------|
| Multi-WAN Load Balancing | ✓         |
| OSPF                     | ✓         |
| BGP                      | ✓         |

| Feature                             | Supported |
|-------------------------------------|-----------|
| Advanced QoS                        | ✓         |
| mDNS                                | ✓         |
| Advanced NAT                        | ✓         |
| Integrated RADIUS Server            | ✓         |
| RADIUS over TLS (RadSec)            | ✓         |
| UniFi LTE Backup                    | ✓         |
| Internet Quality & Outage Reporting | ✓         |
| Virtual Network Override            | ✓         |
| All Traffic Flows                   | ✓         |
| MAC Address Table Size              | 4,000     |

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## Hardware Specifications

| Specification             | Value                                |
|---------------------------|--------------------------------------|
| NVR Storage               | Selectable NVMe SSD (up to 2 TB)     |
| PoE Budget                | 30 W                                 |
| PoE Voltage Range         | 50–57 V                              |
| Maximum Power Consumption | 29.4 W (excluding PoE output)        |
| Power Method              | 54V DC / 1.1A DC Jack                |
| Power Supply              | 54V DC / 1.1A Adapter (Included)     |
| Supported Input Voltage   | 100–240V AC                          |
| Heat Dissipation          | 100 BTU/hr (excluding PoE output)    |
| Processor                 | Quad-core ARM® Cortex®-A73 @ 2.2 GHz |
| System Memory             | 3 GB                                 |

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## Management & Indicators

### Management Interfaces

- ☐ Ethernet
- ☐ Bluetooth

### Status LEDs

- ☐ Ethernet ✓
- ☐ SFP+ ✓

### Controls

- ☐ Factory Reset Button

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## Environmental

| Specification         | Value                      |
|-----------------------|----------------------------|
| Operating Temperature | 0–40°C (32–104°F)          |
| Operating Humidity    | 5–95% (Non-condensing)     |
| ESD/EMP Protection    | Air: ±8 kV, Contact: ±4 kV |
| NDAA Compliant        | ✓                          |

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#### Certifications

- ☐ CE
- ☐ FCC
- ☐ IC
- ☐ SRRC
- ☐ Anatel (04395-25-08356)

## Network Upgrade Project Requirements

The selected vendor shall meet the following minimum requirements:

### 1. Hardware Warranty

- All supplied network hardware must include a minimum **two (2) year manufacturer's warranty**
- Warranty services should include hardware replacement or repair in accordance with the manufacturer's warranty policy.

### 2. On-Site Installation and Configuration

- The vendor shall provide **complete on-site installation, configuration, testing, and commissioning** of all network equipment.
- The installation must ensure that the upgraded network is fully operational and integrated with the existing infrastructure before project handover.

### 3. Training for IT Staff

- The vendor shall provide **comprehensive training** for the organization's IT staff on the installation, configuration, operation, management, and basic troubleshooting of the deployed network equipment.
- Training shall include relevant documentation, user guides, and configuration manuals.

### 4. Post-Implementation Support

- The vendor shall provide post-installation technical support for a minimum of **30–90 days** after project completion to resolve any issues arising from the deployment.

### 5. Warranty and Support Response

- During the warranty period, the vendor shall provide technical support with clearly defined response and resolution times (e.g., critical issues responded to within 4 hours).