# DATASHEET





## 10G 16-Port Managed Aggregation Switch

Model: US-16-XG

Non-Blocking Throughput Switching

Maximum Performance and Low Latency

10G Ethernet SFP+ and RJ45 Ports





#### 10G Aggregation Switch for Enterprise Networks

Build and expand your network with Ubiquiti Networks<sup>®</sup> UniFi<sup>®</sup> Switch 16 XG, part of the UniFi Enterprise System. The US-16-XG is a fully managed, 16-port, 10G fiber switch that enhances network capacity by providing high-bandwidth aggregation connectivity to multiple switches in your network.

The US-16-XG offers an extensive suite of advanced Layer-2 switching features and protocols.

#### Switching Performance

The US-16-XG offers the forwarding capacity to simultaneously process traffic on all ports at line rate without any packet loss.

The total non-blocking throughput is up to 160 Gbps.

#### **10G High-Capacity Links**

The US-16-XG offers maximum performance and low latency as an aggregation switch.

For fiber connectivity, it features 12 SFP+ ports. For copper connectivity, the US-16-XG offers four RJ45 ports that support 10GBASE-T, the standard for 10 Gbps connections using Cat6 (or higher) cabling and RJ45 connectors.

#### **Deployment Example**



The US-16-XG connects to the following:

- Multiple UniFi Switches and a 1G/10G router via SFP+ ports
- VM, Server, NAS, or other network devices via 1G/10G RJ45 ports



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# **UniFi Controller**

Designed for convenient management, the UniFi Controller software allows admins to configure and monitor the UniFi Switch and other UniFi devices using a graphical user interface. You can download it from **www.ubnt.com** at no cost.

#### **Multi-Site Management**

A single instance of the UniFi Controller running in the cloud can manage multiple UniFi sites within a centralized interface. Each site is logically separated and has its own network monitoring, configuration, maps, statistics, and admin accounts.

## **Switch Configuration**

You can access any managed UniFi Switch through the UniFi Controller to configure a variety of features:

- Operation mode (switching, mirroring, or aggregate) per port
- Network/VLAN configuration
- Jumbo frame and flow control services
- Network settings
- Storm control setting per port
- Spanning tree configuration
- 802.1x control and RADIUS VLAN
- Debug terminal option for command-line interface

#### **Switch Port Status**

You can also view status information for each port:

- Connection speed and duplex mode
- TX/RX data rates
- Network/VLAN setting



#### Dashboard

The *Dashboard* tab provides a visual representation of your network's status. Basic information is provided for each network segment.



## **Device Configuration**

The *Devices* screen displays the UniFi devices discovered by the UniFi Controller. You can access each managed device for device details and configuration.

## Models

#### UniFi Switch 16 XG

Model: US-16-XG

- (12) 1G/10G SFP+ Ports
- (4) 1G/10G RJ45 Ports
- (1) RJ45 Serial Console Port
- Non-Blocking Throughput: 160 Gbps
- Switching Capacity: 320 Gbps
- Forwarding Rate: 238.10 Mpps
- Rack Mountable with Mount Brackets (Included)
- DC Input Option (Redundant or Stand-Alone)



Front Panel



Back Panel



Place on a desktop or attach the mounting brackets to install in a rack.



# **Hardware Specifications**

|                               | US  | -16-XG      |   |             |
|-------------------------------|---|-------------|---|-------------|
| Dimensions                    | 443 x 221 x 43 mm (17.44 x 8.70 x 1.69")                                |             |   |             |
| Weight                        | Without Mount Brackets  |             | With Mount Brackets                             |             |
|                               | 2.62 kg (5.78 lb)   |             | 2.71 kg (5.97 lb)                               |             |
| Enclosure Characteristics     |   |             |   | SGCC Steel  |
| Total Non-Blocking Throughput | 160 Gbps  |             |   |             |
| Switching Capacity            | 320 Gbps  |             |   |             |
| Forwarding Rate               | 238.10 Mpps   |             |   |             |
| Max. DC Power Consumption     | 36W (Excludes SFP/SFP+ Modules)   |             |   |             |
| Power Method                  | AC  |             | DC  |             |
|                               | 100-240VAC/50-60 Hz, Universal Input                                    |             | DC 56W, 57 to 20V, with 48/24VDC Terminal Block |             |
| Supported Voltage Range       | 100 to 240VAC   |             | 57 to 20VDC                                     |             |
| Power Supply                  | AC/DC, Internal, 56W DC   |             |   |             |
| LEDs Per Data Port            | Speed/Link/Activity   |             |   |             |
| Sound Level*                  | Fan Level 0   | Fan Level 1 | Fan Level 2                                     | Fan Level 3 |
|                               | 1.0 dBr   | 10.7 dBr    | 12.2 dBr  | 12.8 dBr    |
| Networking Interfaces         | (12) 1/10 Gbps SFP+ Ethernet Ports<br>(4) 1/10 Gbps RJ45 Ethernet Ports |             |   |             |
| Management Interface          | (1) RJ45 Serial Port Out-of-Band, Ethernet Ports In-Band                |             |   |             |
| Certifications                | CE, FCC, IC   |             |   |             |
| Rack Mount                    | Yes, 1U High  |             |   |             |
| ESD/EMP Protection            | Air: ± 24 kV, Contact: ± 24 kV  |             |   |             |
| Operating Temperature         | -5 to 40° C (23 to 104° F)  |             |   |             |
| Operating Humidity            | 5 to 95% Noncondensing  |             |   |             |
| Shock and Vibration           | ETSI300-019-1.4 Standard  |             |   |             |

\* Background noise level: 27.5 dBa



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