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UniFi

UniFi Router 7 Desktop 10G Cloud Gateway



Specifications:

- **Dimensions:** Desktop form factor
- **Managed Devices:** UniFi Application Suite Managed UniFi Devices and Cameras
- **Simultaneous Users Connected:** 20,000+
- **Max. WAN Port Count:** 1/5
- **Default WAN Ports:** 10G Cloud Gateway
- **Security Features:** Stateful Firewall, Layer 7 Firewall, DPI & Traffic Identification, Zone-Based Firewall, Content Filtering, Intrusion Prevention, Ad Blocking, VLAN Segmentation, VPN & SD-WAN
- **Networking Features:** Multi-WAN Load Balancing, Dynamic Routing, Site-to-Site VPN, VPN Server, VPN Client
- **Wireless Features:** WiFi Standard, MIMO, Antenna Gain, Wireless Security
- **Supported Data Rates:** 802.11a/b/g/n/ac/ax/be
- **Certifications:** CE, FCC, IC

Product Usage Instructions

Security Setup:

Configure your firewall settings, content filtering, intrusion prevention, and VPN parameters for secure network access.

Networking Configuration:

Set up multi-WAN load balancing, define VPN server and client settings, and configure dynamic routing for efficient network management.

Wireless Network Setup:

Configure your WiFi standard, MIMO settings, antenna gain, and wireless security options for optimal wireless connectivity.

FEATURE



*64 GB pre-installed microSD.

WiFi 7 with Tri-Band • PoE switch (15.4W) • 160 m² (1,750 ft²) coverage • 300+ connected devices • 10G SFP+ WAN port • Full UniFi application support • microSD storage (64GB Pre-installed)

SPECIFICATIONS

Overview	
Dimensions	Ø110 × 184.1 mm(Ø4.3 × 7.3")
UniFi Application Suite	Network / Protect / Access / Talk / Connect
Managed UniFi Devices	30+
	(5) HD
Managed Cameras	(2) 2K

	(1) 4K
Simultaneous Users Connected	300+
Max. WAN Port Count	4

Default WAN Ports	(1) 10G SFP+ (1) 2.5 GbE RJ45
Port Layout	2.5 GbE RJ45: 4 (1 PoE) (2.5G/1G/100M/10M) 10G SFP+: 1 (10G/1G)
IDS / IPS Throughput	2.3 Gbps
Form Factor	Compact desktop
Coverage Area	160 m ² (1,750 ft ²)
Security	
Stateful Firewall	✓
Application-Aware Layer 7 Firewall	✓
DPI & Traffic Identification	✓
Zone-Based Firewall Advanced Filtering (Regions, Domains, Apps)	✓
Content Filtering	✓
Intrusion Prevention (IPS/IDS)	✓
Ad Blocking	✓

IDS / IPS Signatures	20,000+ with CyberSecure
VLAN / Subnet-based Traffic Segmentation	✓
VPN & 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 ✓
Networking	
Multi-WAN Load Balancing	✓
Dynamic Routing	OSPF ✓

Advanced QoS	✓
Multicast DNS (mDNS)	✓
Advanced NAT (SNAT / DNAT / Masquerade / NAT Pooling / 1-to-1 NAT)	✓
Integrated RADIUS Server	✓
RADIUS over TLS (RadSec)	✓

Additional Internet Failover with UniFi LTE Backup	✓
Internet Quality and Outage Reporting	✓
MAC Address Table Size	2,000
Policy-based WAN and VPN Routing	✓
Customizable DHCP Server	✓
IPv6 ISP Support	✓
IGMP Proxy	✓
integrated WiFi	
WiFi Standard	802.11a / b/g / n / ac / ax / be (WiFi 6/6E, WiFi 7)
Throughput	6 GHz: 5.7 Gbps 5 GHz: 4.3 Gbps 2.4 GHz: 688 Mbps
MIMO	6 GHz: 2 × 2 (DL/UL MU-MIMO) 5 GHz: 2 × 2 (DL/UL MU-MIMO) 2.4 GHz: 2 × 2 (DL/UL MU-MIMO)
Antenna Gain	6 GHz: 6 dBi 5 GHz: 7 dBi 2.4 GHz: 5 dBi

Max. TX Power	6 GHz: 24 dBm 5 GHz: 26 dBm 2.4 GHz: 23 dBm
Wireless Security	WPA-PSK, WPA-Enterprise (WPA/WPA2 /WPA3/PPSK)
Max. BSSIDs	4 per Radio

Supported Data Rates	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 6.5 Mbps to 300 Mbps (MCS0 – MCS15, HT 20/40) 802.11ac (WiFi 5): 6.5 Mbps to 1.7 Gbps (MCS0 – MCS9 NSS1/2, VHT 20/40/80/160) 802.11ax (WiFi 6/6E): 7.3 Mbps to 2.4 Gbps (MCS0 – MCS11 NSS1/2, HE 20/40/80/160) 802.11be (WiFi 7): 7.3 Mbps to 5.7 Gbps (MCS0 – MCS13 NSS1/2, EHT 20/40/80/160/240/320)
Hardware	

NVR Storage	Pre-installed 64GB microSD for NVR
Expansion Slot	MicroSD Card
PoE Budget	15.4W
Max. PoE Wattage per Port by PSE	PoE: 15.4W
Voltage Range PoE Mode	44 ~ 57V
Max. Power Consumption	26W (Excluding PoE output)
Power Method	Universal AC input, 100—240VAC, 1.5A Max, 50 / 60 Hz
Power Supply	AC / DC, Internal, 50W
Supported Voltage Range	100—240V AC
Processor	Quad-core ARM® Cortex®-A53 at 1.5 G Hz
System Memory	3 GB
Weight	1.1 kg (2.4 lb)
Enclosure Material	Polycarbonate
LCM Display	0.96" status display
Management	Ethernet Bluetooth
LEDs	System ✓
Button	(1) Factory-reset
ESD / EMP Protection	Air: ± 8kV, contact: ± 4kV
Ambient Operating Temperature	–10 to 40° C (14 to 104° F)
Ambient Operating Humidity	5 to 95% noncondensing

NDA Compliant	✓
Certifications	CE, FCC, IC
Software	
VLAN	802.1Q
Guest Traffic Isolation	✓
Application Requirements	UniFi Network: Version 9.0.108 and later

FAQ


How do I configure VLAN guest traffic isolation?

To enable VLAN guest traffic isolation, navigate to the VLAN settings in the UniFi Network application and create a separate VLAN for guest traffic with appropriate isolation rules.

What are the recommended data rates for different WiFi standards?

The supported data rates vary based on the WiFi standard in use. Refer to the product manual for detailed data rate specifications for each standard.

Documents / Resources

	UniFi Router 7 Desktop 10G Cloud Gateway [pdf] Instructions Router 7 Desktop 10G Cloud Gateway, Router 7, Desktop 10G Cloud Gateway, Cloud Gateway
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References

- [User Manual](#)

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