

Festa VPN Gateway | Datasheet

Festa FR365

AX3000 Gigabit VPN Gateway



Highlights

- **Free Cloud Centralized Management:** Accessible via the Festa app or the web[†].
- **Easy Setup and Use:** No professional IT technician is required. Festa App, Self-Organizing Networking, and Zero-Touch Provisioning technology make it a breeze.
- **Complete Festa Ecosystem:** Business-class features with consumer-inspired simplicity. It's ideal for small businesses, home offices, cafes, retail, prosumers, advanced consumers, and large households.
- **Up to 3.0 Gbps Mesh WiFi 6 Speeds:** 2402 Mbps on 5 GHz and 574 Mbps on 2.4 GHz^Δ.
- **6× Gigabit Ports (Including 1 SFP):** Provides high-speed Gigabit connectivity.
- **1× USB 3.0 WAN Port:** Enables mobile broadband backup via a 4G/3G modem[‡].
- **Load Balancing on Up to 5 WAN Ports:** Optimizes multi-line broadband utilization.
- **High-Security VPN Options:** Supports IPSec, PPTP, L2TP, and OpenVPN.
- **Business-Level Quality:** Features an elegant metal casing and a design suitable for desktop or wall mounting.

Product Pictures



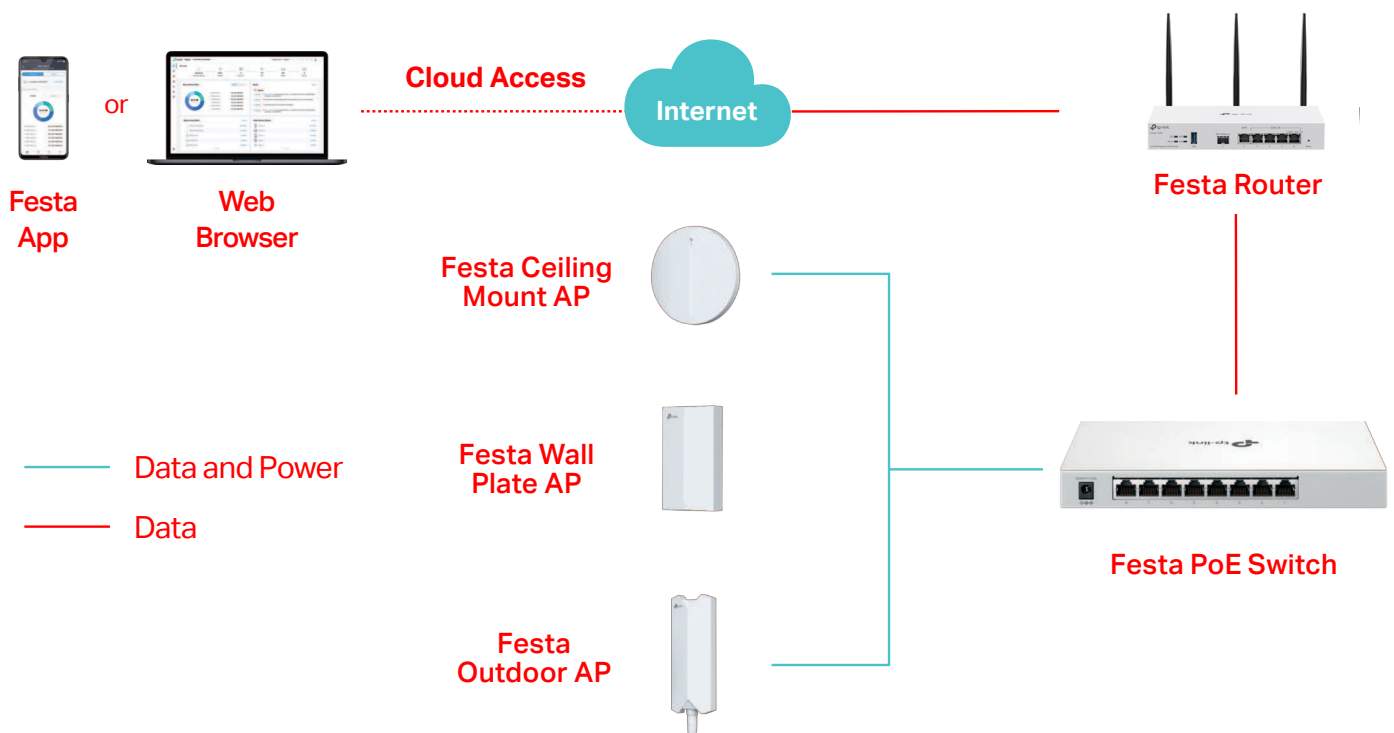
Festa Solution

Festa unifies APs, switches, and gateways for full cloud-based management, offering an easy, effective, and reliable business-level network controlled via app or web. Perfect for small businesses, home offices, and cafes.

Easy Setup and Use


Free Cloud Centralized Management[†]

Easy Maintenance



[†]Festa currently offers free cloud access for centralized management and reserves the right to apply fees in the future.

Specifications

Model		Festa FR365
Product Picture		
Product Description		AX3000 Gigabit VPN Gateway
Hardware	Standards and Protocols	IEEE 802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE 802.3x, IEEE 802.1q, TCP/IP, DHCP, ICMP, NAT, PPPoE, NTP, HTTP, HTTPS, DNS, IPSec, PPTP, L2TP, OpenVPN, SNMP, 802.11a/b/g/n/ac/ax
	Interface	1 Gigabit SFP WAN/LAN Port 1 Gigabit WAN port 4 Gigabit LAN/WAN ports
	USB	1 USB3.0 (supports USB LTE dongle) ²
	Wi-Fi Speed	2.4 GHz: 574 Mbps 5 GHz: 2402 Mbps HE160
	Antennas	2.4 GHz: 2x 3 dBi dual-band detachable antennas 5 GHz: 3x 4.5 dBi dual-band detachable antennas
	Network Media	10BASE-T: UTP category 3, 4, 5 cable (Max 100 m) EIA/TIA-568 100Ω STP (Max 100 m) 100BASE-TX: UTP category 5, 5e cable (Max 100 m) EIA/TIA-568 100Ω STP (Max 100 m) 1000BASE-T: UTP category 5, 5e, 6 cable (Max 100 m)
	Button	Reset button
	Power Supply	12VDC / 2A Power Adapter
	Flash	128 MB NAND
	DRAM	512 MB DDR4
	LED	SYS, WLAN, SFP, USB, WAN (1000M Link/Act, 100/10M Link/Act), WAN/LAN (1000M Link/Act, 100/10M Link/Act)
	Max Power Consumption	EU: 16.8W (with USB 3.0 connected), 11.8W (without USB 3.0 connected) US: 22.7W (with USB 3.0 connected) 18.2W (without USB 3.0 connected)
	Surge Protection	4 kV surge protection
	Mounting	Desktop/ Wall-mounting
	Dimensions (W x D x H)	8.9 × 5.2 × 1.4 in (226 × 132 × 35 mm) (Antenna dimensions not included)
SDN Support	Cloud Controller	Automatic Device Discovery Intelligent Network Monitoring Abnormal Event Warnings
	Festa App	Unified Configuration Captive Portal Configuration

1. Rated specifications are based on test results using specific software version. Device performance may vary as a result of the actual scenario.
2. For the complete compatibility list of 4G/3G modem, go to <https://www.tp-link.com/en/festa-fr365/compatibility/>

Model		Festa FR365
Performance ¹	Concurrent Session	150,000
	New Sessions /Second	5,100
	Static IP NAT Throughput (Upload / Download)	937.2 Mbps/936.1Mbps
	DHCP NAT Throughput (Upload / Download)	945.8 Mbps /940.6Mbps
	PPPoE NAT Throughput (Upload / Download)	942.9 Mbps/942.9Mbps
	L2TP NAT Throughput (Upload / Download)	837.4 Mbps /881.5Mbps
	PPTP NAT Throughput (Upload / Download)	803.0 Mbps/910.5 Mbps
	66 Byte Packet forwarding rate (Upload / Download)	1,453,489 pps / 1,453,488 pps
	1,518 Byte Packet forwarding rate (Upload / Download)	81274 pps/ 91275 pps
	IPSec VPN Throughput	ESP-SHA1-AES256: 646.9Mbps ESP-SHA256-AES256: 642.8Mbps ESP-SHA384-AES256: 648.9Mbps ESP-SHA512-AES256: 658.4 Mbps
	OpenVPN	129.3Mbps
	L2TP VPN Throughput	Unencrypted: 1034.0 Mbps Encrypted: 570.0 Mbps
	PPTP VPN Throughput	Unencrypted: 1165.0 Mbps Encrypted: 209.0 Mbps
Basic Functions	WAN Connection Type	Static IP Dynamic IP PPPoE (supports MRU Configuration) PPTP L2TP
	DHCP	DHCP Server DHCP Options Customization Multi-IP Interfaces Multi-Net DHCP
	MAC Clone	Modify WAN Address
	IPTV	IGMP v2/v3 Proxy, Custom Mode, Bridge Mode
	IPv6	StaticIP / SLAAC / DHCPv6 / PPPoE / 6to4Tunnel / PassThrough / Non-Address mode
	Stateful ACL	√

1. Rated specifications are based on test results using software version 1.0. Device performance may vary as a result of the actual scenario.

Model		Festa FR365
Basic Functions	Bridge VLAN	√
	VLAN	802.1Q VLAN
Wireless Function	Wireless Encryption	WPA/WPA2/WPA3 Personal, WPA/WPA2/WPA3 Enterprise
	Multiple SSIDs	16 in total (8 per radio)
	Enable/Disable Wireless Radio	√
	Enable/Disable SSID Broadcast	√
	Guest Network	√
	Automatic Channel Selection Algorithm	√
	Transmit Power Control	Adjust transmit Power on dBm
	Seamless Roaming	√
	Mesh	√ (with EAP that supports Mesh)
	OFDMA	√
	Beamforming	√
	MU-MIMO	√
	Rate Limit	Based on SSID/Client
	Load Balance	√
	Airtime Fairness	√
	Band Steering	√
	RADIUS Accounting	√
	Wireless Schedule	√
	Support Data Rates	802.11ax: 8 Mbps to 2402 Mbps (MCS0-MCS11, NSS = 1 to 2 HE20/40/80/160) 802.11ac: 6.5 Mbps to 2166.7 Mbps (MCS0-MCS11, NSS = 1 to 2 VHT20/40/80/160) 802.11n: 6.5 Mbps to 300 Mbps (MCS0-MCS15, HT20/40) 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

Model		Festa FR365
Transmission	Load Balance	Intelligent Load Balance Application Optimized Routing Link Backup (Timing, Failover) Online Detection
	NAT	NAT-DMZ Port Forwarding
	Routing	Static Routing Policy Routing
	Bandwidth Control	IP-based Bandwidth Control
VPN	IPSec VPN	100 IPSec VPN Tunnels LAN-to-LAN, Client-to-LAN Main, Aggressive Negotiation Mode DES, 3DES, AES128, AES192, AES256 Encryption Algorithm IKE v1/v2 MD5, SHA1, SHA2-384 and SHA2-512 Authentication Algorithm NAT Traversal (NAT-T) Dead Peer Detection (DPD) Perfect Forward Secrecy (PFS)
	PPTP VPN	PPTP VPN Server PPTP VPN Client (10) ¹ 50 Tunnels PPTP with MPPE Encryption
	L2TP VPN	L2TP VPN Server L2TP VPN Client (10) ¹ 50 Tunnels L2TP over IPSec
	OpenVPN	OpenVPN Server OpenVPN Client (5) ¹ 55 OpenVPN Tunnels "Certificate + Account" Mode Full Mode
Security	Filtering	URL Filtering
	Access Control	Source/Destination IP Based Access Control
Authentication	Web Authentication	Simple Password ² Hotspot (Voucher ² / Form Auth ²)
Management	Service	Dynamic DNS (Dyndns, No-IP, Peanuthull, Comexe, DDNS Customization)
	Maintenance	Web Management Interface SNMP v1/v2c/v3 Port Mirroring Syslog Support
Others	Certification	CE, FCC, RoHS
	Package Contents	Festa FR365, Power Adapter, Quick Installation Guide
	System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7/8/8.1/10/11 MAC OS, NetWare, UNIX or Linux
	Environment	Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F) Storage Temperature: -40 °C to 70 °C (-40 °F to 158 °F) Operating Humidity: 10% to 90% non-condensing Storage Humidity: 5% to 90% non-condensing

1. For PPTP VPN and L2TP VPN, Festa FR365 can connect with up to 10 VPN servers. For OpenVPN, Festa FR365 can connect with up to 5 VPN servers.
2. The following web authentication methods are supported only in Controller Mode: Simple Password, Voucher, and Form Auth.

Ordering Information

Host Gateway

Model	Description
Festa FR365	AX3000 Gigabit VPN Gateway

SFP Modules

Model	Description
TL-SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 20km distance
TL-SM311LM	Gigabit SFP module, Multi-mode, LC interface, Up to 550m distance
TL-SM321A	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 20 km
TL-SM321A-2	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 2 km
TL-SM321B	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 20 km
TL-SM321B-2	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 2 km

RJ45 SFP Modules

Model	Description
TL-SM331T	1000BASE-T RJ45 SFP Module

[†]Festa currently offers free cloud access for centralized management and reserves the right to apply fees in the future.

[‡]For the complete compatibility list of 4G/3G modem, go to <https://www.tp-link.com/en/festa-fr365/compatibility/>

[^]Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and coverage are not guaranteed and will vary. Use of WiFi 6 (802.11ax) and its features, including OFDMA, HE160, and 1024-QAM, require clients to support the corresponding features. The 160 MHz bandwidth is only available on the 5 GHz band. It may be unavailable in some regions/countries due to regulatory restrictions.

* Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: www.tp-link.com.

* Specifications are subject to change without notice. All brands and product names are trademarks or registered trademarks of their respective holders. © 2024 TP-Link