

EdgeFocus - High Performance, Advanced SD-WAN

The ES511 is a high-performance network management platform, engineered for advanced connectivity needs in diverse environments. Ideal for large-scale deployments or as a Point of Presence (PoP), ES511 ensures secure, reliable, and efficient operations.

Optimized for high throughput and multi-user / multi-tenant environments, this platform offers extensive SD-WAN capabilities, advanced security, and real-time monitoring all in a 19" rackmount unit.

Multi-deployment capable Hub

The ES511 is a next-generation edge server designed to seamlessly integrate into complex networks, empowering businesses with resilient, intelligent, and adaptive connectivity. Designed for both remote edge applications and multi-site backbone services, it enhances reliability and secures operations across diverse network environments.

- ✧ Eight configurable WAN/LAN Ethernet ports
- ✧ Two 25Gb SFP ports for high-speed connectivity
- ✧ Processor optimized for high user-count sites and hubs
- ✧ High Throughput with Multi-WAN bonding, QoS, DPI, and IPS



Centralized Flexibility with Data Center Dependability



Advanced Routing and Hub Service

Multi-WAN routing across Starlink, 5G, and wired links with performance optimized for high bandwidth throughput, low-latency connectivity. Multipath VPN intelligently distributes encrypted traffic across multiple tunnels, maximizing bandwidth utilization and enhancing failover resilience



Cloud-Managed with Real-Time Insights

Centralized cloud platform enables remote configuration, fleet management, and hierarchical policy control, delivering full visibility and streamlined operations for both high user-count single sites and distributed multi-site deployments



Comprehensive Enterprise Security

Protects network integrity with Deep Packet Inspection (DPI), Traffic Policies, Intrusion Prevention (IPS), and VPN - acting as a SASE hub to extend these security services across connected sites.

Contact sales@kognitive.net or visit www.kognitive.net to [find out more](#).

Edge Applications

- Intuitive system management locally or from the Cloud
- Kognitive Cloud with analytics and remote access
- Mobile App management and remote control

Advanced Quality of Service

- Deep Packet Inspection (DPI) with Application, Domain, and IP filtering
- Rate, Quota, Priority management
- One-click client/group management
- Priority / Shaping / Blocking

Local Area Network Management

- Connected and Routed Networks
- LAN, DHCP, DNS, Bonjour/M-DNS
- Quality of Service (QoS) and Traffic Management

Software Defined Wide Area Network

- WAN Link Priority and Bonding
- Advanced Bonding
- Point of Presence (PoP) Dropoff with USA Internet
- VPN Services
- Hub Service as Multi-path VPN Host

konnnect

Enterprise grade network appliance for remotely accessible secure SD-WAN, designed for high traffic remote sites or a centralized hub architecture element.



Overview	
Software	KonnnectOS with Kognitive Cloud
Services	Multi-WAN failover, External 5G modem support, Firewall, QoS/QoE Traffic Policies, MPK-VPN, IDS/IPS, Captive Portal, Remote Management, SD-WAN or Hub Modes, Point of Presence (POP)
Typical Use Cases	Office & Remote Sites, High Reliability Multi-WAN Routing, Site to Site VPN, Regional Internet Drop-off
Capacity	
SD-WAN Client Capacity	up to 500+ clients Native: up to 3000 Mbps Tunneled, QoS Disabled: 1200 Mbps Tunneled, QoS Enabled: 800 Mbps
SD-WAN Hub Capacity	75 Edge Systems, 150 Tunnels, 100k Flows Tunneled, QoS Disabled: 1200 Mbps Tunneled, QoS Enabled: 800 Mbps
Specifications	
Ethernet Ports	8x RJ45, 2x SFP [6x RJ45 1 GbE i350-AM2, 2x RJ45 1 GbE i210, 2x SFP28 25 GbE]
Expansion Ports	2x USB3
Processor	Xeon D1718T 3.50 GHz, 4 core / 8 threads
Memory / Storage	32 GB DDR4 / 500 GB SSD
Physical	
Enclosure	19" rack mount (1u), active cooling
Measurements	19 x 9.8 x 1.75" / [482 x 249 x 45mm]
Environment	0°C to +40°C, ≤ 95% RH non-condensing
Power	110/220 AC (500W ATX Power Supply)
Regulatory	
Certifications	CE, FCC
Warranty	1-year limited, extended warranty available

Contact sales@kognitive.net or visit www.kognitive.net to find out more.