KognitiveEdge

Wireless Aware Networking

Kognitive Edge is a powerful network management platform that secures and optimizes connectivity across wired, cellular, and satellite links. Standard security features include a next-gen firewall, application filtering, intrusion detection/prevention, and a powerful VPN architecture to compliment advanced bandwidth bonding and wireless link acceleration. Deploy the Kognitive Edge for streamlined networking, from the edge to the cloud.

Advanced Capabilities for the new Wireless Frontier

Enhanced Connectivity

High-reliability using multiple WAN sources keeps sites connected even with intermittent or dropped links.

Unified Threat Management

Based on Zero Trust principles, protect endpoints and network integrity at every node with a full security suite.

Bandwidth Optimization

Maximize efficiency with advanced bandwidth bonding, acceleration, and automated traffic shaping.

Secure. Simple.

Enhanced Security with Intrusion Detection / Prevention and Next Generation Firewall

Protect your network with industry-leading security tools like Deep Packet Inspection (DPI), content filtering, intrusion detection (IDS/IPS) and a next-gen firewall - all designed to stops threats in real-time and provide historical records for compliance.

Cloud Management, with Rich Analytics in a Software-First Environment

Zero-Touch provisioning and Group Policy configuration let administrators take control of networks with big-picture orchestration instead of relying individual device configurations. Virtual Machine deployment options provide cloud based access anywhere in the world without dependence on and limitations of physical hardware.

Diverse WAN, Multi-Tenant

Increased Performance using Wireless Links

Kognitive Networks employs multiple backend technologies, including advanced bandwidth bonding, multi-path VPN, and Performance Enhancing Proxy (PEP) tunneling, to improve connectivity and reliability of wireless links. With dedicated controllers for each type of WAN source - Starlink, Cellular 4G/5G, traditional VSAT - the Kognitive Edge gives users the most comprehensive way to manage and maintain high-speed wireless connections.

Designed to handle organizations of any size

Enterprises and Managed Service Providers with multiple levels of hierarchy benefit from Kognitive Edge's flexible multi-tenant architecture. Offering granular control across multiple organizations with an intuitive hierarchical SD-WAN architecture, it's simple to grow and scale securely using customized role-based access with IAM and ZTNA. Flexible architecture and network hierarchies can be designed with a robust hub and spoke architecture, including deploying global Points of Presence (POPs) for regional internet drop-offs to reduce latency and ease content-access restrictions.

Single Vendor, Flexible Architecture

Simplify your operations with a fully integrated solution that combines security, connectivity, and management in one unified platform–eliminating the need for multiple vendors. Work with our engineers to customize your network architecture using a mix of hubs and edge nodes to tackle global networking challenges.

kognitive EDGE

Experience the power of Advanced SD-WAN for secure high performance hybrid wired / wireless networking

EdgeFit

EdgePro

EdgeFocus

	EdgeFit	EdgePro	EdgeFocus
Software	EdgeOS with Kognitive Cloud	EdgeOS with Kognitive Cloud	Virtualized EdgeOS with Kognitive Cloud
Services	Firewall, IDS/IPS, Captive Portal, Starlink Cloud, Bandwidth Bonding	Firewall, IDS/IPS, Captive Portal, Starlink Cloud, Bandwidth Bonding	Firewall, IDS/IPS, Captive Portal, Starlink Cloud, Bandwidth Bonding
Typical Use Cases	Office & Remote Sites, High-Rel. Multi-WAN, Site to Site VPN	Office & Remote Sites, High Rel. Multi-WAN, Site to Site VPN, Regional Hub	High traffic remote sites, Hub & Global Point of Presence
SD-WAN Client Capacity	up to 50 clients Native: 300 Mbps Tunneled, QoS Disabled: 225 Mbps Tunneled, QoS Enabled: 165 Mbps	up to 200 clients Native: 700 Mbps Tunneled, QoS Disabled: 550 Mbps Tunneled, QoS Enabled: 400 Mbps	1000+ clients Native: up to 1500 Mbps Tunneled, QoS Disabled: 1500 Mbps Tunneled, QoS Enabled: 1500 Mbps
SD-WAN Hub Capacity	Site to Site VPN only	25 Edge Systems, 50 Tunnels, 20k Flows Tunneled, QoS Disabled: 500 Mbps Tunneled, QoS Enabled: 300 Mbps	75 Edge Systems, 150 Tunnels, 100k Flows Tunneled, QoS Disabled: 1500 Mbps Tunneled, QoS Enabled: 800 Mbps
Hardware Platform	Standalone, VESA mount, fanless	Standalone, VESA mount, fanless	19" rack mount (1u), active cooling
Processor	Celeron J3160 1.60GHz, 2 core / 4 threads	i3-7020U 2.30GHz, 2 core / 4 threads	Xeon D1823NT 3.5 GHz, 6 core / 12 threads
Memory / Storage	8GB DDR3 / 120 GB SSD	8GB DDR4 / 120 GB SSD	32 GB DDR4 / 500 GB SSD
Ethernet Ports	4x 1.0 GbE RJ45	6x 1.0 GbE RJ45	6x 2.5GbE RJ45, 2x 25GbE SFP28
Expansion Ports	2x USB3	4x USB3	2x USB3, 1x PCIe G4 x16 or 2x PCIe G4 x8
Operating Environment	-10°C to +50°C, ≤ 95% RH non-condensing	-10°C to +50°C, ≤ 95% RH non-condensing	0° to 40°C, ≤ 95% RH non-condensing
Dimensions	4.5" x 4.3" x 1.5" / 115 x 108 x 39 mm	6.1" x 5" x 2.1" / 155 x 127 x 53 mm	19 x 14.3 x 1.75" / 482 x 363 x 45mm
Power	+12VDC (20W Max)	+12VDC (50W Max)	110/220 AC (500W ATX)
Certifications	CE, FCC	CE, FCC, Anatel	CE, FCC
Warranty	1-year limited	1-year limited	1-year limited

Ascent Modem

T-Mobile verizon AT&T

	Ascent Modem
Typical Users / Use Cases	1 - 50 / small office & remote sites
Performance	5G SA / NSA, 4G LTE, 4x4 MIMO, CAT-19/CAT-18, Peak DL/UL Mbps: 5G NSA 3400/550, 5G SA 2400/900, LTE 1600/200
Band Support	5G SA / NSA: n1,n2,n3,n5,n7,n8,n12,n13,n14,n18,n20,n25,n26,n28,n29,n30,n38,n40,n41,n48,n66,n70,n71,n75,n76,n77,n78,n79 LTE FDD: B1,B2,B3,B4,B5,B7,B8,B12,B13,B14,B17,B18,B19,B20,B25,B26,B28,B29,B30,B32,B66,B71 LTE TDD: B34,B38,B39,B40,B41,B42,B43,B46(LAA),B48
Certifications	CE, FCC, RoHS, PTCRB; Certified for use on T-Mobile, Verizon, ATT
Warranty	1-year limited