



K4 EdgeFusion



Maritime Internet and LAN Management system

K4 Edge Services

K4 EdgeFusion provides WiFi, LTE (4x), and VSAT (2x) Internet networks, voice/PBX services, and LAN service integration all within a single platform and easily managed via K4 Edge App

- Integrated 4x Cellular modems, up to 2x VSAT modems, 2x2 Wi-Fi, 2x Aux WAN sources
- 12 SIM cards routable to 4 modems, manually or with predictive analytics
- Data-driven SDWAN optimization, bandwidth bonding, and hardware switching
- 2u rackmount server with router, RF interfaces, and 8 port VOIP voice gateway

The EdgeFusion is a full-featured server that integrates numerous vessel connectivity systems within a single 2u rack-mountable platform. With the power to manage an array of WAN sources, the K4 EdgeFusion can intelligently optimize connectivity for an entire vessel using K4's suite of management products. The integrated 4x cellular modems, Wi-Fi, POTS, and up to 2x VSAT modems consolidate connectivity into a single, easy to use system. Readily managed via a Local Web Portal, K4 Edge Mobile App, and via Cloud Kapture Service Portal – the K4 EdgeFusion simplifies vessel connectivity and integrates into K4's larger platform so that a fleet of systems can be reliably monitored and supported at scale.

K4 EdgeFusion

- Platform hosting LTE (4x), VSAT (2x) and Wi-Fi WAN modems
- VOIP gateway
- GbE interfaces for LAN/WAN connectivity
- 12X hosted LTE SIM with K4 SIM selector, SIM Bank
- Rackmount or stand-alone design

K4 Edge Application

- Intuitive dashboard
- Manage service from anywhere
- One-click management, service updates

Advanced K4 QoS

- Deep packet inspection, DNS Content Filter
- Rate, Quota, Priority management
- One-click client/group management

Security and performance

- Optimized LTE/SIM performance with K4 Mobility Management (ML/AI)
- Integrated stateful firewall
- DPI + CF to secure the Internet

Local Area Network Management

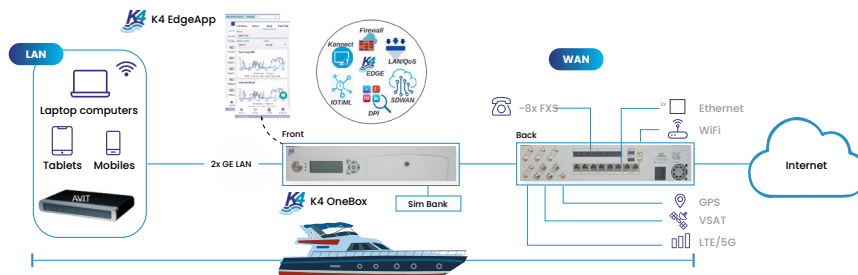
- Direct and routed LAN DHCP DNS
- LAN monitor, Remote Connect
- M-DNS with enterprise VPN
- App, Device, and Group QoS

Software-Defined Wide Area Network

- Group/device/app priority
- Catalyst IQ channel bonding
- USA Internet

Operations

- HA software/systems
- K4 Edge Connect from anywhere
- Role-based access without SSO
- 3rd Party Service Hosting





K4 EdgeFusion Front View

K4 EdgeFusion Rear View

WAN Ethernet	2x 1000 Mbps WAN Sources
WAN WiFi	802.11 ac/a/b/g/n 2x2 MIMO, 1166 Mbps
WAN VSAT	Up to 2x iDirect iQ200 Ku – 100Mbps per modem; Global Ku Networks
WAN Cellular	4x CAT12 LTE Modems - 600/150 Mbps per modem
LAN Interface	2x 1000 Mbps – LAN/Client 2x 1000 Mbps – Management
WAN Sources	7
LAN Ports	2
GNSS Receiver	GPS, GLONASS, Galileo, BeiDou, and QZSS
Client Capacity	400 Clients
VOIP	8x FXS for POTS
RF Connectors	WiFi: 2x female SMA VSAT: 4x female F-Type 75 Ohm LTE: 8x female SMA GPS: 1x female SMA
Ethernet Interfaces	6x 100/1000 Mbps Ethernet Ports
Phone Interfaces	8x RJ11
VSAT Interface	2x GbE – VSAT (one per iQ200)

Management Interfaces	3x USB2.0, 1xUSB3.0
SIM Bank	12x 2FF Mini SIM slots; push/push sockets
Internet Throughput	900 Mbps
Power Input	250 W AC power (100-240 V, 50-60 Hz)
Power Consumption	100W (Typical) – 20% loading
Cooling	2x 70mm fans
Mounting	2u 19" Rackmount
Dimensions	DxWxH (18.0"x 16.0"x 3.5")
Weight	16lbs
Operating Temperature	0-50 C
Operating Humidity	Up to 90%, non-condensing
Certifications	FCC, CE, RoHS, 80Plus
Warranty	1 year limited