

AERONAUTICAL SATCOM - NETWORK GATEWAY SPECIFICATIONS



eNfusion® CNX-200 cabin gateway series

The eNfusion® CNX-200 Cabin Gateway is a multi-port network router with a data accelerator module. The appliance increases the number of network users, the strength of encryption and the speed (data acceleration) of a Satcom system.

Form Factor

The CNX-200 provides all necessary cabin network functions with a power source and a web-based interface. Its network functions include seven (7) Ethernet ports, an Ethernet Switch, an 802.11G Wireless Access Point, a VPN end point and a stateful inspection firewall.

The accelerator module uses Accelerator OS 5 from Expand Networks to accelerate and compress data and add 100% to 400% bandwidth capacity to the cabin network.

Communication

- | | |
|---------------------------|--|
| Communication Services | Seven (7) 10-Base-T Ethernet I/F ISDN redirect Wireless cabin telephony Point-to-Point Protocol (PPP) Multi-Link PPP Protocol (MLPPP) 802.11G Wireless Access Point MPDS (Mobile Packet Data Service) Inmarsat Swift 64 Inmarsat SwiftBroadband (BGAN) |
| Security and Acceleration | Stateful firewall NAT (Network Address Translation) DMZ (Demilitarized Zone) Port blocking, port forwarding Firewall custom filtering VPN - IPSec (3DES) |

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|--------------------|---|
| Control Interfaces | Web-based network administration Serial Port |
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Environmental Conditions

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|---------|---------|
| Cooling | Passive |
|---------|---------|

Operation

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|------------------------|--|--------|
| Power Requirement | 25W | 28 VDC |
| Monitoring | Web-based Interface port (command prompt) | |
| Operational Monitoring | Connections (status, devices, IP) System monitoring Traffic (trace) ISDN (channel status) System log (events and errors) LED (outputs, power) System up time (hours and minutes) | |

Dimensions

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|-----------------------|-----------|----------|
| Width | 13.8" | 35.05 cm |
| Width (with brackets) | 15.4" | 39.10 cm |
| Height | 3.7" | 9.45 cm |
| Length | 8.6" | 21.84 cm |
| Weight | 13.0 lbs. | 5.90 kg |

Certification, Approvals, Standards

| | |
|-------------------------|--|
| FAA Technical STD Order | TSO-C132 and AC specific STCs |
| RTCA Documents | RTCA/DO-160D (susceptibility) |
| ARINC Standards | ARINC 429 connectors ARINC 739 controller ARINC 615 interfaces |

Mounting

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|---------------------------------------|--|
| Flange Mount | 4 x 10-24 fasteners |
| Outside or Inside Cabin Configuration | Installed in the cabin Web-based network administration |



An 802.11G Wireless Access Point connects passenger laptops and wireless cabin phones.



A single avionics unit and power source for all router, firewall and acceleration functions.



Maintenance is done via maintenance port, or web-based interface.

ORDER

Call or e-mail for prices and details regarding system capabilities and installations.

+1 800.600.9759 (North America)

+1 613.591.1043 (Worldwide)

or getbroadband@emsaviation.com

LEARN MORE

Additional Documents

Additional documents related to installation, maintenance, satellite network hardware and software—can be requested via the phone numbers listed above.



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