

DATASHEET

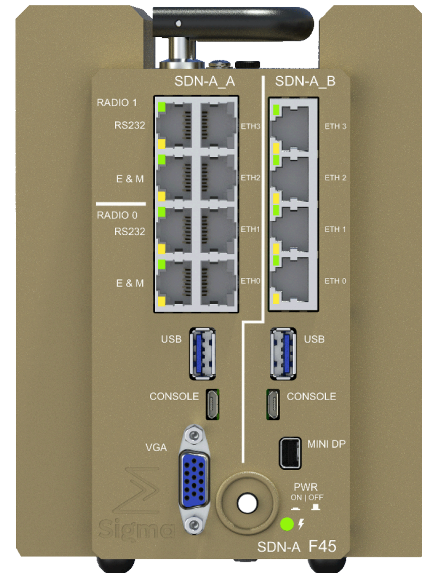
F45 - First 45 Minutes

The F45 is your all-in-one solution for secure, portable, and adaptable communications.

Building on Sigma's legacy of delivering unparalleled, highly integrated CSfC solutions, the F45 seamlessly combines our Software Definable Network Appliance™ (SDNATM) technology with the industry-leading Radio Over IP (RoIP) Gateway technology from JPS Interoperability. This cutting-edge fusion presents the industry's first dual VPN Gateway appliance, enabling secure access to classified networks from anywhere, while also transporting military and COTs radio audio over an NSA CSfC secured network connection – all encapsulated within a singular, compact, and robust appliance.

Unparalleled Integration and Performance

The F45 is an all-in-one solution comprised of two SDNA modules. One module is powered by an Intel® E3950 processor and supports up to two Virtualized Networking Functions (VNFs) and delivers hundreds of Mbps of VPN tunneling performance. Meanwhile, the second SDNA module unleashes superior capabilities with the Intel® C3808 12 core processor, 10 Gbps interfaces, ample compute power, RAM, and storage. It can effortlessly run multiple VNFs, including router/VPN Gateway VNFs, and uphold VPN tunneling exceeding 1 Gbps.



Features

- NSA CSfC solution or Type 1
- Two high performance SDNA™ modules
- Intel® Processors
 - Black router - Intel E3950 4-core*
 - Red router - Intel C3808 12-core*
- Two Radio inputs for audio (E&M) and RS232 signals
- Machined metal enclosure for extreme durability
- Designed to operate on a single Mil 2590 battery
- Compact and lightweight, ideal for easy transport in a backpack
- 12 VDC power, four 12 VDC output (for radios, satcom terminal, etc.)

*Upgradeable to Xeon D and Next-gen Intel processors

The F-45 redefines ultra-portable, rugged secure NSA Commercial Solutions for Classified communications.

Revolutionizing Radio Over IP

The F45 takes secure communications further by incorporating JPS Interoperability's advanced Radio Over IP technology. The appliance offers two Radio inputs, accommodating both audio and RS232 signals. This innovative integration enables the seamless inclusion of radio audio communication within secure network connections, enhancing interoperability and collaboration.

Empowering Versatility and Customization

One of the F45's game-changing attributes is its complete software upgradability. Users can tailor their appliance to their specific needs, selecting preferred VNF providers and Application Servers to craft mission-specific solutions. The F45's compatibility extends to industry leading vendors such as Cisco Systems, Aruba, Juniper 128

Technologies, Palo Alto, and, of course, Sigma. With the F45, the possibilities for Application Server functionality are boundless, supporting RoIP media servers (JPS, WAVE, etc.), C2 platforms (REDCOM SIGMA, Cisco CUCM), File Servers, Video Transcoders (Haivision), and numerous other applications limited only by imagination.

Compact and Portable

Encased within a rugged machined metal enclosure, the F45 is designed to withstand demanding environments. Its reliability is further ensured by the capability to operate from a single Mil 2590 Battery, enhancing mobility and flexibility. The F45's compact dimensions, measuring approximately 8.0" x 6" x 4.5", and lightweight design, weighing 7.8 pounds, make it easily transportable in a backpack, ensuring that secure communication capabilities can be taken anywhere.



F45 - Secure Communications for the "First 45" Minutes of Initial Entry

- Single device that integrates a black router and red router with two Radio over IP (RoIP) gateways
- Software Definable Network Appliance™ (SDNATM)
- Rugged machined metal enclosure
- 8.0" x 6" x 4.5" and 7.8 lbs.
- NSA CSfC or Type 1