

M: DEFENDER VOICE

The Defender "Series" is MissionMobility's most rugged and scalable baseband communication solution supporting Everything-Over-IP (EoIP). The Defender "Voice", a derivative of the Defender Series, provides a simplified approach to the deployment of networking, Voice and IP solutions. The added Voice capabilities support analog telephones to IP conversion at the remote site; providing RJ11 (2-wire) connections, supporting four (4) Standard POTS phones simultaneously to a SIP Phone Switch, CISCO Call Manager, or other 3rd Party VoIP Switch.



All MissionMobility Defender Series solutions are packaged in a lightweight, transportable, ruggedized case. The modular nature of this system ensures maximum adaptability, with the capability to support two enclaves simultaneously. Three enclave solutions can be provided upon special request.



BENEFITS

- Delivers analog telephone circuits over IP Wide Area Network (WAN)
- Converts Voice over IP (VoIP) to POTS voice, (for example Connection to CISCO Call Manager)
- Efficient, high quality voice over low bandwidth IP

KEY FEATURES

- Supports typically 10-20 tactical users
- Maintains up to 4 port solutions (analog to VoIP)
- 2 Wire interfaces (FXS and FXO available)
- Voice compression as low as 5.3kbps
- Real time Transport Protocol (RTP) optimization
- Compatible with CISCO Mobile Access Router or Call Manager
- Robust power options for maximum adaptability
- Standard Configuration includes MissionMobility Dashboard Tool (GUI)
- Operates in the harshest environments, with operating in temperatures up to 60°C/140°F
- Scalable Network Capabilities to meet the needs of the mission
- Supports multiple encryption devices providing both interface and power support for devices including KG-175D, SecNet54, KG-250X, KG250 allowing users a wide range of encryption options with no concern of types of power available
- Utilizes standard MIL-Spec 2590 Lithium Ion battery (included) with integrated 50 Watt charger providing true UPS support
- Standard configuration (DEF-INSSW/NMSW15) provides 7 accelerated client user ports (including 4 PoE for peripheral devices, such as VoIP phones) and 3 router interface ports (configurable for multiple WAN connections simultaneously) per enclave

MARKETS

- Tactical Teams & Units
 - SOF (Special Operations Forces)
 - Mobile Ground Forces
- Executive Travel Teams
- Intelligence Community



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TECHNICAL SPECIFICATIONS

Defender Voice Kit

Weight: 51.6 lbs.
 Dimensions: 24" x 16" x 10"
 Operating Temperature: 0° to 60°C

Integrated Network Solution (INS)



Cisco 3250 Router (FIPS-140-2 certified)
 Skipware with MissionMobility Dashboard (GUI)
 IPSEC: Point to Point VPN, DMVPN, and EZ VPN using up to AES-256 bit encryption keys
 Routing: BGP, OSPF, EIGRP, RIP, static, and policy-based routing
 Security: IPS and IOS based Firewall. FIPS-140-2 Level 2 approved encryption hardware platform
 Management: SSHv2, https (SSL), SNMPv2 and v3, telnet, serial console
 IPv6 compliant (SCPS, Router, and switch)
 Capabilities (SKIPWARE): GRE acceleration, black-hole detection, Riverbed auto-discovery support, rate-pacing, and dynamic bandwidth-delay product support, SCPS compliant
 Up to 1250 accelerated TCP sessions
 Integrated Managed Layer 2 Switch

- Management: CLI, HTTP, HTTPS, SNMP v2/3, SSH, and telnet
- Network Fault Analysis: Port Mirroring and network and port statistic reporting
- QOS: 802.1P and IP TOS/DSCP prioritization
- Multicast Support: IGMP v1/v2
- VLAN Support: 802.1Q trunking and tagging as well as port-based VLAN's
- Port Security: MAC address based port security

Network Connections-- Supports 1 WAN (routed 10/100), 2 option ports (10/100 switch), and 7 user ports (4 have POE) power. Provides 4 analog voice ports capable of supporting secure voice.

- Input: AC (90-264 VAC 47-440 Hz, 12-36 VDC, and 2590 battery single)-provides 2 AC "pass-through" outlets
- Conditioned Outputs for (1) NM class, (1) SecNet54 or 2nd NM class, (2) 12 VDC devices, and (1) 5 VDC device
- Internal NSA approved KG-250 power supply (optional)

Integrated Vocality Basics Secure Voice - Analog telephone to IP Converter

- 4 FXS 2 wire analog ports
- G.168 adaptive echo cancellation
- g.723, G.729A, G.726, G.727, and G.711 (u-law and a-law) codec support
- DTMF, Group 3 Fax. V.32bis modem, STU-II/III, and FNBBDT relays
- Optional SIP interface to SIP PSTN gateway or call-manager (ATA mode)

Module (NM)



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