SUPERNET
VECOM

VEHICULAR COMMUNICATIONS SYSTEM

SuperNet™ VECOM is an advanced compact IP-based integrated voice and data communications system. It provides a common network platform, serving as a super highway to facilitate integration of various C4I (Command, Control, Communications, Computers and Intelligence) systems. This enhances interconnectivity, survivability and interoperability. The robust and ruggedized SuperNet VECOM facilitates collaboration which helps to increase workgroups command and control efficiency on tactical vehicles operating in high tempo and harsh environments.

KEY FEATURES

- Configurable in Lite, Standard and Enhanced *(10Gb backbone)* capabilities

- Unified communications based on open architecture design

- Drop in replacement for Cobham AN/VIC-3/VIC-5

- Instant "On" capability

- System scalability

- Reliable communications

- System management

- Small form factor

- Dual ring infrastructure provides redundancy

- IP based integrated voice and data communications

- Distributed power supply

- Enhanced voice services *(blind-touch and spatial audio operation, intercom)*

- Alert systems

- Rich radio functionalities *(radio conferencing and control, access and monitoring of radio nets, private radio)*

Technical Specifications

Communications System

- VoIP base Session Initiation Protocol (SIP)
- Dual Ring Gigabit Ethernet Backbone – configurable to operate in fallback mode without performance degradation
- System and radio management

Power Supply

- 18-36 VDC input, MIL-STD-1275 compliant distributed ower supply

Protocols

- Ethernet (IP Phone / IP Radio / Data Terminals) Interfaces
- RS232
- Analogue audio (4-wire Tx / Rx / PTT)
- Analogue alarm inputs and loud speaker outputs

Environment and EMI/EMC Qualifications

Operating Temperature	MIL-STD-810G (-40°C to +60°C)
Storage Temperature	MIL-STD-810G (-55°C to +71°C)
Solar	MIL-STD-810G
Fungus	MIL-STD-810G
Vibration	MIL-STD-810G
Shock	MIL-STD-810G
Salt Fog	MIL-STD-810G
Humidity	MIL-STD-810G
Ingress Protection	IP68 (Water Submersion at 1m)
EMI/EMC	MIL-STD-461E
Vehicular Supply Standard	MIL-STD-1275D

Our Services

- System conceptualisation and design
- Manufacturing and procurement
- Implementation
- System integration
- Testing and commissioning
- Documentation and training
- Supply support
- Warranty and maintenance

Accolades

- CRP (Congrès de la Radiocommunication Professionnelle) Outstanding Product Trophy for SuperNet Radio Gateway
- Asia Pacific ICT Awards (APICTA) – Merit Prize (Communication Applications Category) for SuperNet Integrated Communications System
- Infocomm Singapore Awards for SuperNet Integrated Communications System
- IES Prestigious Engineering Achievement Award for SuperNet Integrated Communications System

Patents

- Voice over the Internet Method and System [SG: P-No 152824 (WO 2008/069754)]
- Un-interrrupted VoIP Radio Gateway Services through Clustering [SG: P-No 143323 (WO 2007/0700009)]
- Wireless Communication System [SG: P-No 120810 (WO 2005/067165)]
- Redundant Power Supply for Power-Over-Ethernet [SG: P-No 132094 (WO 2006/052217)]
- Dual Mode ISDN S/U Interface Converter [SG P-No 88454 (WO 02/84983)], [US 7,016,374 B2]