VFT1001 – VoIP Field Telephone

A user-friendly VoIP telephone for use in a harsh environment

Functionality: VFT1001 is a lightweight, ruggedized, portable and advanced tactical field telephone for voice and data communication over IP networks.

Area of Application: VFT1001 is a cost optimized VoIP based voice communication terminal for deployment as last mile device over IP network. It provides Ethernet connectivity that can be utilized for accessing the tactical field networks through this unit.

- Voice and data services over IP capable data radios and links
- Rapid deployment field communications
- Infantry communications
- Tactical vehicular communication
- On board communication for ship

Design

- In accordance with military requirements for use in a harsh environment
- H-350/U type handset, compatible for usage with helmet
- Can be used on the table, hanged on a tree or on a wall. Can be carried in a bag
- Die cast metal housing to withstand extreme field conditions

Features

- Push-To-Talk handset function
- Powered through Power over Ethernet (PoE) / vehicular power (10 – 32 V DC) / internal batteries
- Both audible and LED indication of incoming call
- Easy to use push buttons with backlight
- Auto Answer feature for use with headset (optional item)

- Storage of up to 10 pre-defined numbers in memory
- Standard batteries (3 of 1.5V C-type) or external battery (10V to 32V) used
- Battery quality status with LED indication
- Supports connecting FXS lines
- Rugged, weather-proof and waterproof
- Integrated speaker for call monitoring
- Remote maintenance through web user interface
- Dedicated button for emergency call
- Radio mode for voice over connected Radio net by use of external Radio Interface box (optional item)
- Whisper Mode for silent operations
- Very low power consumption
- Noise cancelling handset
- Internal Ethernet Switch
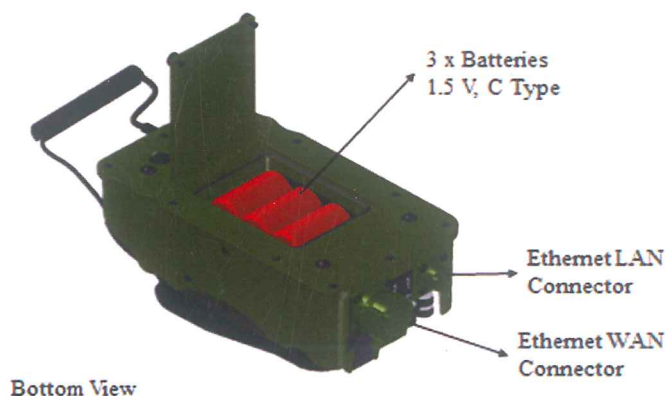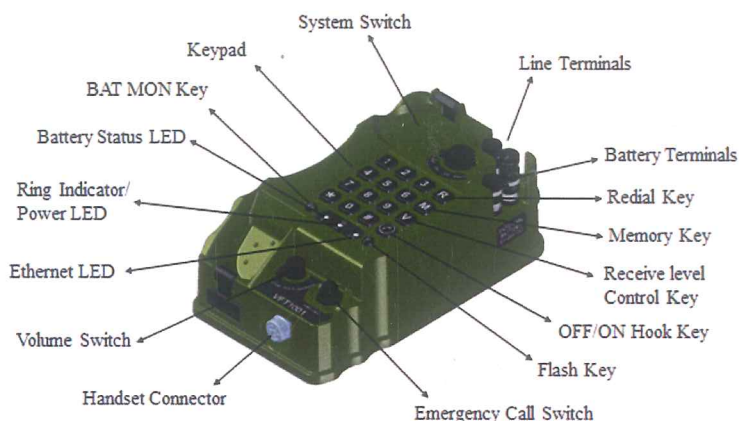
VFT1001 – VoIP Field Telephone

Specifications

Selectable Modes of Operation

IP	VoIP Mode
CB	Central Battery mode for selecting FXS port
AA	Auto Answer mode for hands free operation
Radio	Radio mode operation

Interfaces

WAN	100Base-T Ethernet with PoE input; MIL 38999 series connector.
LAN	100Base-T Ethernet; MIL 38999 series connector.
Handset / Headset audio	MIL Grade H-350/U
DC Input	9 – 36 V DC
Radio / FXS	2-wire interface for connecting radio /FXS

Technical Data

Voice Codecs	G.711, G.723, G.729A/B
Networking Support	IPv4, TCP, UDP, ICMP, ARP
VoIP protocol stacks	SIP2.0
Telephony applications	Multi party conference and Press To Talk (PTT)
Security	SRTP

Environmental Data

Operating Temperature	-25°C to +55°C
Storage Temperature	-40°C to +65°C
Relative Humidity	95% (+30°C to +60°C)
Waterproof	Immersion in 1m depth
Driving Rain	100 mm/hour

References

MIL-STD-810G	Temperature and mechanical stress
MIL-STD-461E	EMI/EMC
EN-61000-4-2	ESD
EN-61000-4-5	Lightening

Bottom View

Reliability

MTBF	>80000 hours

Dimensions and Weight

Height	80 mm (without handset) 98 mm (with handset)
Width	122 mm
Length	215 mm
Weight	1,8 kg (with handset) 2,5 kg (with handset, batteries, manual and carrying bag)