

HFT3001

Hybrid Field Telephone



HFT3001 is a user-friendly CB, IP, LB field telephone for use in harsh environment. It is lightweight, ruggedized, portable and advanced tactical field telephone for CB, LB, LBR and voice / data communication over IP networks.

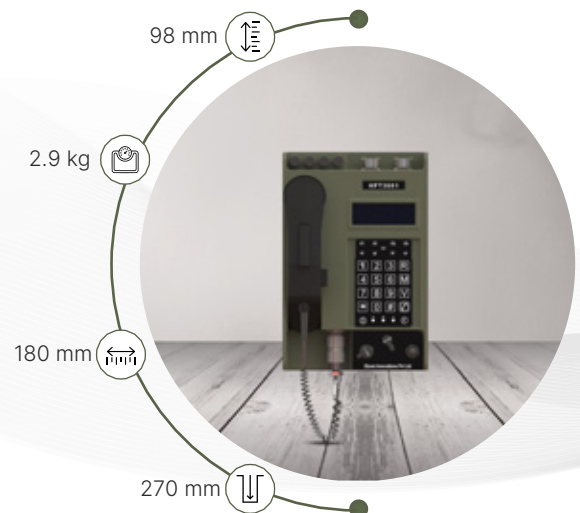
AREA OF APPLICATION

HFT3001 is a cost optimized solution for deploying last-mile long distance 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 network
- Rapid deployment field communication
- Ops room communication
- 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
- for use on the table, hung over tree / wall. Carry in a bag
- Aluminium Dye cast metal housing to withstand extreme field conditions
- OLED alphanumeric display 4×20 for ease of operation and maintenance
- Run time BITE for diagnostic purpose



FEATURES

- Both audible and visual indication of incoming call
- Easy to use push buttons with backlight
- Auto Answer feature for use with headset
- Common storage of up to 100 pre-defined numbers in memory
- Powered through Power over Ethernet (PoE) / vehicular power (9 – 36 V dc) / internal batteries
- Dedicated storage of 10 pre-defined numbers for CB only mode usage
- Built-in Ethernet switch
- Noise cancelling handset support
- 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
- Radio mode for voice over connected Radio net by use of external Radio Interface box
- Whisper Mode for silent operations
- Very low power consumption
- Standard batteries (3 of 1.5V D-type) or external battery (9V to 36V) used
- Push-To-Talk handset function



• Hybrid Field Telephone

SPECIFICATIONS

Selectable Modes of Operation

- | | | |
|-------|---|--|
| • IP | : | IP Mode |
| • CB | : | Central Battery mode for connecting FXS line |
| • LB | : | LB mode operation |
| • LBR | : | LB Radio mode operation for accessing radio |

Interfaces

- | | | |
|-------------------------------------|---|---|
| • 100Base-T Ethernet with PoE input | : | MIL Grade connector |
| • Central Battery Signalling (CBS) | : | MIL Grade connector |
| • Handset/headset audio | : | MIL Grade H-350/U |
| • DC Input | : | Vehicular Power 9-36VDC |
| • CB / LB / FXS | : | 2-wire interface for connecting CB / LB / FXS |



Technical Data

- Voice Codecs : G.711A/U Law, G.723, G.729A/B
- Networking Support : IPv4, TCP, UDP, ICMP, ARP, NTP, DHCP, TFTP, HTTP, HTTPS, VLAN, DNS
- VoIP protocol stacks : SIP2.0
- Telephony applications : Three party conference and Press To Talk (PTT)
- Security : TLS, SRTP

Environmental Data

- Operating Temperature : -20°C to +55°C
- Storage Temperature : -40°C to +70°C
- Relative Humidity : 95 %(+30°C to +60°C)
- Waterproof : Immersion in 1m depth

References

- Temperature and mechanical stress : JSS55555-Table L3 MIL-STD-810G
- EMI / EMC : MIL-STD-461E
- ESD : EN-61000-4-2
- Lightning : EN-61000-4-5

Reliability

- MTBF : > 50,000 hours



This publication is not to be regarded as a complete system specification, or to be used as a contract document.

We reserve the right to change the design or specifications without prior notice.

