IPT1001– VoIP Field Telephone

User-friendly VoIP phone for use in harsh environment

Functionality:
IPT1001 is a lightweight, ruggedized, portable and advanced tactical VoIP phone.

Applications:
IPT1001 is a VoIP based voice communication terminal end point. IPT1001 is a cost optimized solution for deploying 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
- Rapid deployment field communications
- Infantry communications
- Tactical vehicular communication
- On board communication for ship/sub-marine
- Integrated switch for simultaneous connectivity of VoIP phone and PC

Design:
- In accordance with military requirements for use in harsh environment.
- H-350/U type handset, compatible with helmet.
- Metal housing to withstand extreme field conditions.
- Rugged, weather/waterproof

Features:
- Very low power consumption; powered through Power over Ethernet (PoE) / vehicular power (9 - 36 V DC)
- Dual line functionality
- Storage of up to 50 pre-defined directory numbers in memory
- Auto-provisioning over tftp/http/https.
- Easy to use push buttons with backlight
- 4 soft keys for feature operation
- Clock display with NTP synchronised clock.
- Remote maintenance through web user interface
- Wired Noise cancelling headset*

Call Features:
- Call Hold
- Call toggle
- Blind Transfer
- Attended Transfer
- Last number redial
- Caller-ID display with Name and Number
- Message waiting indication
- Lists of missed, received, and dialled calls with time stamping.

Design Patent:
IPT1001 design patent No. is 301290

* Noise cancelling headset is not part of standard IPT1001 and to be ordered separately.

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Specifications

Interfaces

WAN	100Base-T Ethernet with PoE input.
LAN	100Base-T Ethernet.
Handset / Headset Audio	MIL Grade H-350/U
DC Input	Vehicular Power 9 – 36V DC

Technical Data

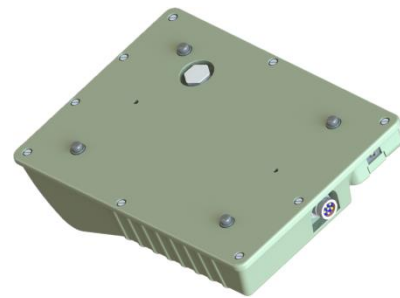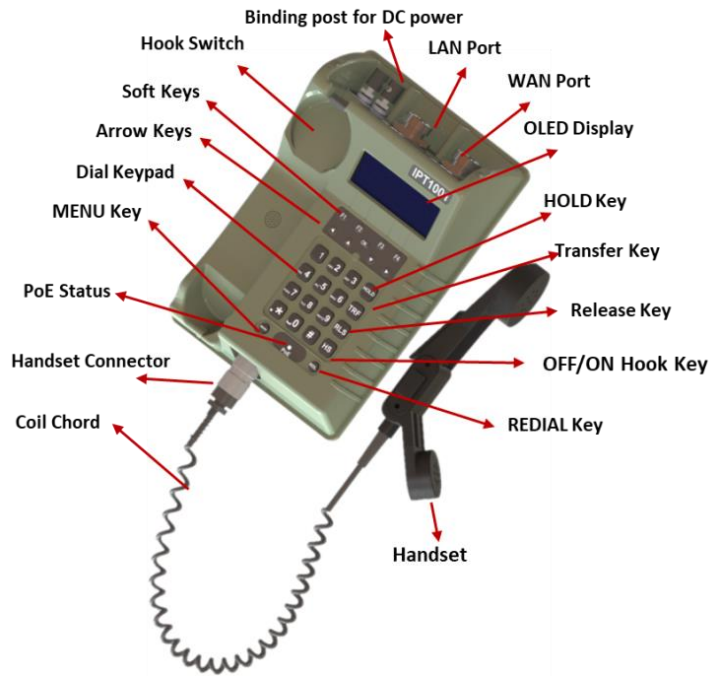|	
Voice Codecs	G.711, G.723, G.729 A/B, G.722
Networking Support	IPv4, TCP,UDP,ICMP,ARP
VoIP Protocol Stacks	SIP 2.0 (RFC3261)
Telephonic Applications	Press To Talk (PTT)
Security	TLSv1.2, SRTP, mTLS

Network Features

WAN/ LAN	Support Bridge and Router model
NAT Features	Basic NAT and NAPT
IP Allocation	DHCP Client on WAN/Static
VLAN	VLAN tagging
Protocols	DNS Relay, NPT Client, TFTP, HTTP client, HTTPS client

Environment Data

Operating Temperature	-30°C to +55°C
Storage Temperature	-40°C to +71°C
Relative Humidity	95 % (+30°C to +60°C)
Waterproof	Immersion in 1m depth;

Reliability

MTBF	> 80000 hours

Labels: Binding post for DC power, Hook Switch, LAN Port, Soft Keys, WAN Port, Arrow Keys, OLED Display, Dial Keypad, MENU Key, HOLD Key, Transfer Key, PoE Status, Release Key, Handset Connector, OFF/ON Hook Key, Coil Chord, REDIAL Key, Handset

Bottom View

References

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

Dimensions and Weight

Height	70 mm (without handset) 91 mm (with handset)
Width	170 mm
Length	249 mm
Weight	2,00 kg (with handset)