

VOICERO | TAC

TACTICAL VOICE COMMUNICATION SYSTEM

#MilitaryCommunication



aselsan

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TACTICAL VOICE COMMUNICATION SYSTEM

VOICERO/TAC is a SIP-enabled VoIP system designed in accordance with military standards to meet air-ground and ground-ground communication needs in the tactical field.

VOICERO/TAC consists of;

- Voice communication set (VCS)
- Communication interface unit (CIU)
- Voice communication unit (VCU)

Voice communication set (VCS) is a SIP VoIP switchboard for voice communications in the tactical field. It provides the communication of military/civil end devices with standard SIP features. It provides versatile communication with radio, analog phone, analog external line and ISDN PRI E1 interfaces. VCS's can automatically discover each other and share subscriber information. It communicates with standard SIP PBXs via SIP trunk connections.

Communication interface unit (CIU) is a SIP VoIP terminal for voice communications in the tactical field. It works by connecting to SIP PBXs with standard SIP features. It is fully compatible with VCS. Military radios have remote management capability. It provides SIP communication with radios over VCS. It has the feature of wired-wireless line completion. It can work in L2 / L3 networks by connecting to PoE-enabled network switches.

Voice communication unit (VCU) is a SIP VoIP device for voice communications in the tactical field. It works by connecting to SIP PBXs with standard SIP features. It is fully compatible with VCS. It is designed in military standards in accordance with outdoor conditions. It can work in L2 / L3 networks by connecting to PoE-enabled network switches.

VCS Basic and Technical Specifications

- VoIP PBX with SIP feature
- Compliance with environmental conditions (MIL-STD-810G) and EMI/EMC (MIL-STD-461G) standards
- Connection with standard SIP terminals
- 4 software/analog based radio connections (9661 V/UHF GBDS, 9661 V/UHF and 9661 HF)
- 1 analog phone (FXS)
- 6 analog external lines (FXO)
- 2 ISDN PRI E1
- Hot redundant structure
- Managing software based radios via SNMP
- Managing analog based radios over raw ethernet
- Voice communication over SIP/RTP protocols
- Ability to play auditory alerts and recorded sounds over the speaker
- Ability to transfer voice recordings to external voice recording server
- Auto discovery
- Ability to delete and add numbers in calls
- Calling over the network with E.164 and SIP URI
- 220 VAC and 18-32 VDC supply
- Built-in test (BIT) capability

CIU Technical Specifications

- VoIP terminal with SIP feature
- Compliance with environmental conditions (MIL-STD-810G) and EMI/EMC (MIL-STD-461G) standards
- Management of military radios via VCS (9661 V/UHF GBDS, 9661 V/UHF and 9661 HF)



- VoIP based voice communication
- E.164 and SIP URI registration and call feature
- Individual and conference call feature
- Ability to make quick searches and create contacts
- Ability to play auditory alerts and recorded sounds over the speaker
- Built-in test (BIT) capability
- PoE and 18-32 VDC supply
- PTT enabled stereo headset connection
- 7", 10" and 12" color and touch LCD screen options

VCU Technical Specifications

- VoIP device with SIP feature
- Compliance with environmental conditions (MIL-STD-810G) and EMI/EMC (MIL-STD-461G) standards
- PoE and 18-32 VDC supply
- 2.8" color LCD screen
- VoIP based voice communication
- E.164 and SIP URI registration and call feature
- Individual and conference call feature
- Ability to make quick searches and create contacts
- Headset connection
- Bracket
- Built-in test (BIT) capability

Physical Features

Dimensions

- VCS : 4RU, 19", 50 cm depth
- CIU : 7", 10" ve 12" color and touch screen
- VCU : 62 x 220 x 72 mm (W x L x D)

Device Colors

- VCS / VCU : Military green
- CIU : Black

Environmental and EMI / EMC Features

Compliant with MIL-STD-810G and MIL-STD-461G military standards

Operating Temperature

- VCS / CIU : 0°C, +49°C
- VCU : -32°C, +49°C

Storage Temperature

- All devices : -33 °C, +63°C

Humidity

- 30 °C 95% relative humidity

Low Pressure

- 3000 m altitude

Vibration

- Highway, railway, seaway and airway transport

Rain (only for VCU)

- Rain-Operating 16 mm/hour
- Rain-Strength 20 mm/hour

Dust, Sand, Sunlight and Salt Fog Resistance (only for VCU)

EMI/EMC Compliance

- CE102, CS101, CS114, CS115, CS116, CS118, RE102 ve RS103

Supported Protocols

- RFC-3261 SIP session initiation protocol
- RFC-4028 SIP session control
- Codecs G.711A, G.711U, G.729A / B, G.723.1 (5.3 and 6.3)
- Q.931 ISDN PRI

Specifications are subject to change without any notice. | All tolerances are within ±10%.