



TACOM - 21

TACTICAL COMMUNICATION
INTEGRATED SYSTEM



Communication



From Small, Medium to Large Command Centers.

Command Vehicles and ATC



Note: All images in this documents are included for reference purpose only. NAFFCO Aviation has the right to change specifications without prior notice.

Naffco Aviation DICOM TACOM-21 tactical communication integrated system provides a reliable and secure voice communication network over multiple communication channels for the transmission of commands, controls, and synergistic announcements, ensuring fast, flexible to help commanders have timely and accurate decision making.

TACOM-21 is the optimal solution for all kinds of the command center, from mobile to fixed command centers, fully meeting the requirements of wired and wireless communications through fiber optic, copper, microwave, and satellite networks. The solution maximize the capacity of the command centers and remote units on the battlefield. All devices are redundant about transmission lines and the power supply to ensure smooth safe, and reliable information even if one transmission line or a faulty power supply.

To ensure quick mobility and ready-to-use, the components of the TACOM-21 tactical communication integrated system are designed to be compact, rugged, easily connected, suitable for mounting on vehicles/ships, mobile cases as well as at the fixed command and control centers. The TACOM-21 system is design to be durable, optimized for operation in harsh environments such as vibration, high temperature and humidity.



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EASY TO INTEGRATE WITH OTHER SYSTEMS

TACOM-21 tactical communication integrated system provide a wide range of interfaces for connection and control to HF/VHF/UHF radios, telephone networks, copper/fiber connections and the VSAT satellite system. This solution increases mobility flexibility in connection, helps redundancy of transmission lines, improves system reliability and availability in real-world conditions.

INTUITIVE INTERFACE, EASY TO USE

The user interface of the **TACOM-21 tactical communication integrated system** is optimally designed with the function buttons could be customized to suit the user's requirement, allowing the system to be easy to use with a few steps of instruction.

READINESS LEVEL

The system is designed to operate with the highest level of availability to provide service in all situations. All devices are designed with two independent AC/DC powers. The minimum network connection port on each device is 02 ports, while the **TACOM-C** device is 06 ports. This enables users to quickly establish a connection between six **TACOM-Terminal** devices and/or IP telephones with a **TACOM-C** device without the need for an external LAN switch.

READY TO EXPAND THE SYSTEM IN THE FUTURE

TACOM-21 tactical communication integrated system is developed based on an IP-based platform that allows scalability according to user needs. The system is also easy to develop new features for operations and system administrators in the future when necessary.

TACOM TACTICAL TERMINAL (TACOM-TER)

TACOM TACTICAL TERMINAL is a VoIP device, has an interface for the user to operate the system via high-resolution touch screen. The user interface layout can be adjusted according to the user's configuration and requirements.

Designed to be compact, anti-vibration, and dustproof and has a full range of installation accessories for mounting on the vehicle or self-standing. Each Tactical Terminal is fully equipped with accessories such as headsets, handsets, and external speakers to connect with other components in the system.

Each Tactical Terminal support radio PTT, telephony, cross-connect, short-time recording, voice conference, internal voice communication, call queuing, user-based configuration on roles and tasks, query logs, and record all user activity history via function area is displayed on screen.



TACOM MEDIA GATEWAY (TACOM-C)

Tactical Media Gateway (TACOM-21-C) is a **multimedia**, multi-protocol interconnect device that is used to convert all the different connection interfaces to the IP interface while providing connectivity for the devices.

TACOM-21-C enable to connect to TACOM Tactical Terminal, analog radios, digital radios, RoIP, PABX/PSTN, and the user could set up this equipment for multi-purpose such as an analog internal telephone or an IP telephone exchange.

Tacom-C supports a wide range of analog connectors (up to interfaces) and IP phones (up to 150 terminals). Based on IP technology, it can be used for a wide range of command centers, easily expanded when there are requirements.

GENERAL FEATURES

Standard	ED-153, ED-136, ED-137, ED-138, ED-139, ITU-T G.712
Display Interface	English and Customizable
Radio Interface	HF/VHF/UHF
Telephone Interface	SIP/MFC/E&M/FXS/FXO
Function	Hotline, Group Call, Conference Call, Intercom Communication, Cross Connection, Short recording and Playback
Operating Temperature	-20°C to 60°C
Storage temperature	-20°C to 70°C
Humidity	Up to 95% non-condensing

TACOM TERMINAL (TACOM-TER)

Display size	8.4 Inches
Maximum Resolution	800x600
Brightness	400cd/m2
Contrast Ratio	600:1
Colors	16.2M
Viewing Angle	80°/60°/80°/80°
Backlight	LED
Touch Screen	Resistive/Capacitive Touch
Memory	4GB Standard, 8GB (Optional)
Ethernet Port	LAN 0: 10/100/1000 Mbps LAN 1: 10/100/1000 Mbps
Recording Port	02 Analog Channels, 600
Protocol	RTCP, SIP, VoIP, RTP, SRTP, SDP, SNMP, SNTP
STORAGE	128/500GB SSD Standard: 128GB OS for 60 minutes of recording Optional: 512GB OS for 43,000 minutes of recording
STANDARD	MIL-STD-810H for humidity, shock, vibration
EMC	MIL-STD-461
POWER SUPPLY	AC: 100-240V, 50/60Hz DC: 9-32V
I/O INPUT	02 input 9-32 VDC (INCLUDING AC/DC ADAPTER) 02 ETHERNET LAN 02 REC

TACTICAL MEDIA GATEWAY (TACOM-C)

Type	Rackmount, 19 inches
Connection port (Optional)	16 Connection ports (Optional) 04/08 4W E&M ports 08/16 FXO ports 08/16 FXS ports 08 FXO & 08FXS ports 04 Ethernets with 10/100 Base T ports, RJ45 02 SFP ports 02 SIM card ports support 4GL/LTE 02 DC power ports 02 Recording ports
Optional	IP PBX Supports up to 150 Terminals
Audio	PCM 64 kbps G.711 (a or μ law), G.729 a/b
Protocol	TCP, UDP, ICMP, IPv4, IPv6, SSH, Sip, VoIP, RTP, RTSP, SNMP, SNTP, VPN IPsec
Power Supply	AC: 100-240V, 50/60Hz DC: 9-32V



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