

ITFX - Integrated Tactical Field Exchange

State-of-the-art multi-Interface Integrated Tactical Field Exchange (ITFX) is based on digital PCM/TDM and IP switching technology. It employs non-blocking circuit switching concept and interfaces with strategic and tactical communication networks through exchange trunk lines, E1/PRI interface and IP trunks/lines.



ITFX - Front

MDF

ITFX has radio inter-op functionality supporting HF/VHF/UHF radios. Radio nets can communicate with subscribers (Analogue/IP) connected to the system. VFD display mounted on the front panel for displaying system health and running diagnostics. Keypad on the front panel provides easy access to programming of the system.

Application

- The equipment is design to meet modern communication needs of Defence and CAPF(Para Military) in varied terrain.
- Rapid deployment of communication needs in case of Disaster Forces, Special Operations etc.

Functionality

- Supports up to 128 ports consisting of CB, LB, FXO, E1/PRI, SIP trunk and SIP subscriber.
- E1/ PRI Interface for connection to strategic or other tactical networks.
- External connection unit (MDF) for two wire analogue lines.
- MIL Grade Connectors.
- Field Programmable 2 wire interface for FXO/FXS/TWT/Magneto connectivity.
- Modular design for ease of maintenance.
- Supports redundancy of CPU and PSU Cards for greater survivability
- Operates on 230V AC or 12V/24V/48V DC Supply.

- HF/VHF and UHF CNR interface for inter-op.
- Support SIP server for VoIP Phones.
- Built-in Float-Cum Boost charger for charging 12/24/48V battery Bank.
- Built-in Operator Console with handset for call and service handling.
- Tailored card configuration possible.
- Protection against transients on each line.
- Power On Self Test (POST) and Built in Test Equipment (BITE) up to card level.
- Light weight and man portable.
- Day-night readable vacuum fluorescent display (VFD).
- Web based Graphical User Interface (GUI) for management.

ITFX – IP Tactical Exchange

Specifications

System and Maintenance

Modular concept/Universal Port Architecture

Efficient Thermal Management

Auto-sensing of connected battery voltage for battery charging (12/24/48V)

Power on Self Test (POST)

Built in Test Equipment (BITE)

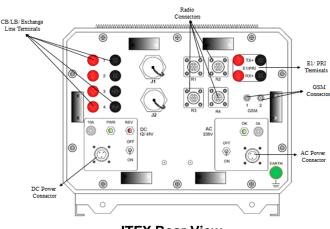
Acoustic and display/ reporting of alarms

Flexible numbering scheme

Built-in redundancy CPU and PSU Control Cards

Subscriber Services

Hotline	
Do-Not-	- Disturb
3 Party	Conference
Call Ba	rring
SIP Cal	I
Radio C	Call
Auto Ca Distribu	all ition (ACD)
4 lines	
12 lines	
4 1 4 1 0 4	
1 x LAN & 1	X WAN POR
1 x LAN & 1 1 Port (30 lin	
	nes)
1 Port (30 lin 2 Radio nets	nes)
1 Port (30 lin 2 Radio nets	nes)
1 Port (30 lin 2 Radio nets (HF/VHF/UH	nes)
1 Port (30 lin 2 Radio nets (HF/VHF/UH 237mm	nes)
1 Port (30 lin 2 Radio nets (HF/VHF/UH 237mm 351 mm	nes)
1 Port (30 lin 2 Radio nets (HF/VHF/UH 237mm 351 mm 501 mm	nes)
1 Port (30 lin 2 Radio nets (HF/VHF/UH 237mm 351 mm 501 mm	nes) s IF)
1 Port (30 lin 2 Radio nets (HF/VHF/UH 237mm 351 mm 501 mm >18 kg	nes) s IF)
	Do-Not 3 Party Call Ba SIP Cal Radio C Auto Ca Distribu 4 lines 12 lines



ITFX Rear View

Operator Console

Built-in Operator Console	
Subscriber and service con	nfiguration
Call assistance for subscrib	pers
Trunk access handling	
Self test functions	
64 Party Conference	
Interfaces	
Analogue Trunk Lines	
Analogue Telephone Lines	(CB or LB)
Digital E1/ ISDN PRI	
IP Interfaces	
CNR Radio Interfaces	
GSM Interface	
Protocols and Standards	5
Protocols and Standards	E1 CAS, R2 MFC
DTMF and Loop Dial	E1 CAS, R2 MFC
DTMF and Loop Dial PRI CCS, PRI (QSIG)	E1 CAS, R2 MFC VOX/ VMR/ COR
DTMF and Loop Dial PRI CCS, PRI (QSIG) Codec Support	E1 CAS, R2 MFC VOX/ VMR/ COR
DTMF and Loop Dial PRI CCS, PRI (QSIG) Codec Support References Temperature and	E1 CAS, R2 MFC VOX/ VMR/ COR G.711, G.723, G.729
DTMF and Loop Dial PRI CCS, PRI (QSIG) Codec Support References Temperature and Mechanical Stress	E1 CAS, R2 MFC VOX/ VMR/ COR G.711, G.723, G.729 JSS55555

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.

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