

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.

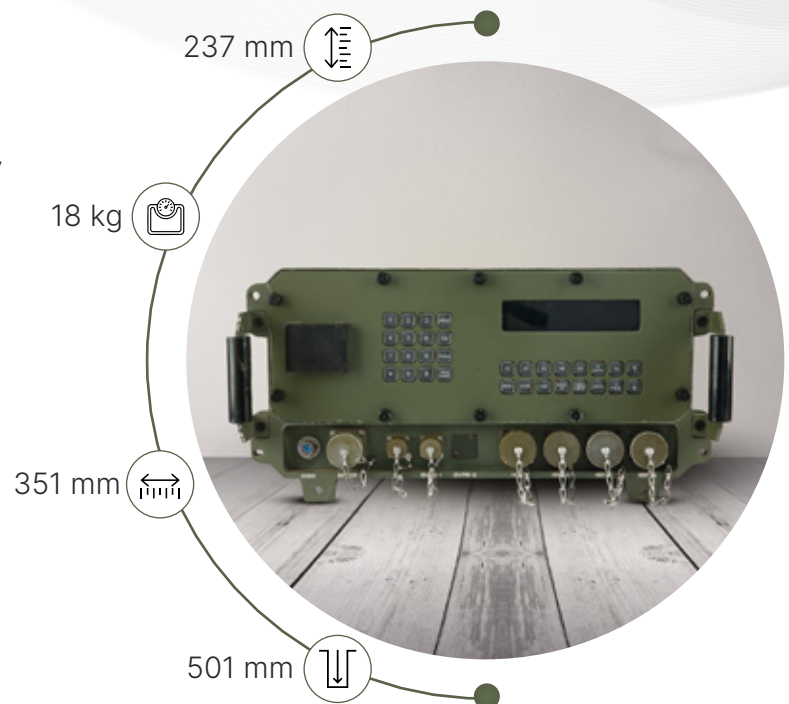
ITFX has radio inter-op functionality supporting HF/VHF/UHF radios. Radio nets can communicate with subscribers (Analogue/IP) connected to the system. Display mounted on the front panel for displaying system health and running diagnostics. Keypad on the front panel provides easy access to programming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

APPLICATION

- Ruggedized tactical switch for Defence, CAPF, Disaster Response, and Special Forces
- Interfaces legacy systems with futuristic voice communication, including radios

FUNCTIONALITY

- External MDF for two wire analogue lines termination
- Field configurable 2-wire interface for FXO/FXS/TWT/Magneto connectivity
- HF/VHF and UHF CNR interface for inter-op
- Built-in SIP server for VoIP subscribers
- Built-in Operator Console with display and handset for call and service handling



- Protection against transients on each line
- POST and BITE up to card level
- Web based GUI for diagnostics & management
- Audio and Visual indications of system alarms



VoIP



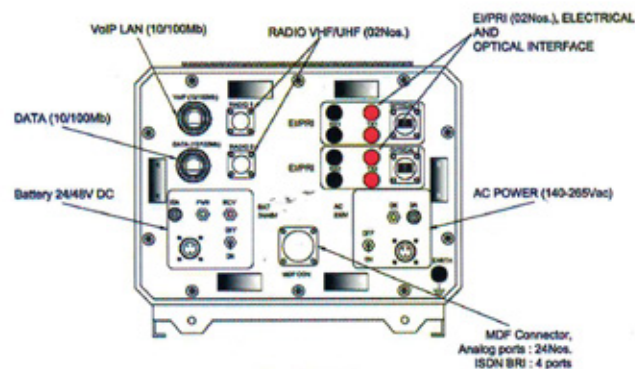
Battery backup



Web GUI



Interoperability
legacy to futuristic



SPECIFICATIONS

Subscriber Services

- VoIP Call
- Access to Radio Call
- Hotline
- Abbreviated Dialling
- Call Hold and Transfer
- 3 Party/Multi-Party Conference
- Auto Call Back
- Call Forward
- Do-Not-Disturb
- Call Pick-up
- Call Barring
- DID & DOD
- Auto Call Distribution

Interfaces

- Analogue Subscribers
- Analogue Trunk Lines
- Digital E1/ ISDN PRI
- CNR Radio Interfaces
- SIP Subscribers and SIP Trunks
- GSM Interface

Protocols and Standards

- DTMF and Loop Dial
- E1 CAS, R2 MFC
- PRI CCS, PRI (QSIG)
- VoIP / SIP
- VOX/ VMR/ COR
- Codec - G.711, G.723, G.729

Environmental Parameters

- Temp & Mech Stress : JSS55555 & MIL-STD-810F
- EMI/EMC : MIL-STD-461E/F
- Lightening : EN-61000-4-5

General Information

- Keypad : 4x4 Numeric and 2x8 Functional Keypad
- Display : 4 lines x 40-character Display
- Power Input : AC 230 V + 10 %, 50 Hz or DC 12/24/48V
- Power Consumption : 0.7 watt / Line
- Mounting : 19" equipment Rack mounting on Sliding Rail
- Dimensions (HxWxD) : 237mm x 351mm x 501mm
- Weight : 18 Kg
- Redundant CPU & Power Supply
- In-built FCBC

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.

