TECHNISONIC
Communications

YOU DESIGN IT. WE BUILD IT.

TDFM-9000 SERIES

ANALOG/DIGITAL/ENCRYPTED/TRUNKED/
MULTI-BAND AIRBORNE AM/FM TRANSCEIVERS

TDFM-9000 SERIES

ANALOG/DIGITAL/ENCRYPTED/TRUNKED/MULTI-BAND AIRBORNE AM/FM TRANSCEIVERS

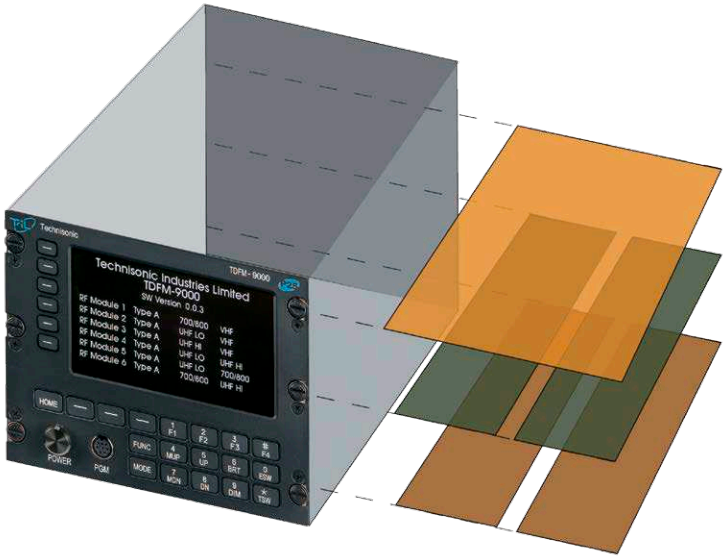
The TDFM-9000 / 9200 / 9300 series radios offer Project 25 Analog/Digital/Encrypted/ Multi-band AM/FM radio transceivers capable of meeting your most demanding operating requirements in both Phase I (FDMA) and Phase II (TDMA) modes. The TDFM-9000 Series consists of multiple models which are configurable to meet each user's specific requirement. Each model is Dzus panel mount and each unit is completely self-contained (no remote mount box).

Capabilities of each are as follows:

- TDFM-9000 can support up to six P25 compliant analog/digital FDMA/TDMA radio modules of your choice.
- TDFM-9200 can support two Analog radio modules and two P25 digital modules capable of covering all four P25 frequency bands simultaneously, FDMA/TDMA Compliant.
- TDFM-9300 can support One Analog along with up to several P25 Compliant FDMA/ TDMA modules of your choice.
- Radio modules can be individually configured to include any P25 options such as trunking, encryption, OTAR, etc.
- Optional Encryption protocols: DES, DES-XL, DVP, DVP-XL, DVI, AES, ADP.
- Available Multiple Encryption Keys: 64 Common Key Reference (CKR) or 16 Physical Identifier Reference (PID) keys.
- Each radio module can store 2000 channels and can be programmed to operate in digital or analog mode on a channel-by-channel basis.
- Each radio module independently supports SCAN across its entire frequency spectrum.
- Built-in audio switching allows multiple RF modules in either combined or separate transceiver configurations.
- Supports simulcast and cross-band repeat.
- Programming is via a Motorola CPS software program.
- Dimensions: 4.5" (H), 5.75" (W) and 8.5" (D)

PROTOCOLS SUPPORTED

- **P25 Phase II TDMA**
- **P25 Phase I FDMA**
- **Conventional Analog**
- **Conventional P25**
- **Smartnet II / SMARTZONE**
- **P25 Trunking**



Technisonic radios are built with you in mind.
Modular configurations allow you to only buy what you need.

SINGLE BAND

- **VHF** (136 -174 MHz)
- **UHF Low** (380-470MHz)
- **UHF Hi** (450-520 MHz)
- **800** (includes 700 MHz)

NEW DUAL BAND

- **VHF/ UHF Low**
- **VHF / UHF Hi**
- **VHF / 800**
- **UHF Low / UHF Hi**
- **UHF Low / 800**
- **UHF Hi / 800**

TIL ANALOG RADIO MODULES

- **Low Band FM** (30 to 50 MHz)
- **VHF/AM Aeronautical Band** (118 to 136 MHz)
- **UHF/AM Military Band** (225 to 400 MHz)

MORE CAPABLE, LESS COST.

New Customer Inquiries
Jim Huddock
Minneapolis, MN
612.231.9020
www.til.ca

Distribution and Support
Dallas Avionics, Inc.
Based in Dallas, Texas, distributes and supports Technisonic products in North America.
www.dallasavionics.com
214.320.9770 800.527.2581

Corporate Headquarters
240 Traders Blvd.
Mississauga, ON Canada L4Z 1W7
905.890.2113

TECHNISONIC
Communications

YOU DESIGN IT. WE BUILD IT.

THE NEW P25 PHASE II COMPLIANT TDFM-9100

TDFM-9100

Multi-Band P25 PHASE II
Airborne FM Communications

TDFM-9100

Multi-Band P25 PHASE II
Airborne FM Communications

The TDFM-9100 is the next evolution of the highly successful TDFM-6000 series.

Newly designed and featuring both Project 25 Phase I and Phase II technology. The TDFM-9100 is specifically designed to meet the growing capabilities demanded by Airborne Law Enforcement and EMS operators across the country. Developed around a new two-module configuration, the 9100 can be configured to support the full P25 FM band spectrum, VHF, UHF-Lo, UHF-Hi and 7/800 MHz using available dual band modules. Fully customizable, the 9100 is the latest addition to the already successful Technisonic 9000 series product line.

Key Features

- Each radio can be individually configured to support one or two, single or dual band, modules.
- Module supports Conventional Analog, Conventional P25 and optional Phase I (FDMA) and Phase II (TDMA) technologies for Trunked operation.
- Single Band or simultaneous Multi-Band
- Operation from multiple locations in aircraft (RC9100)
- Displays all active channels simultaneously
- Cross Band Repeat, Relay and Simulcast
- Programming via Motorola CPS software program
- Encryption with OTAR and or Multi-Key (optional)
- Supports SmartNet, SMARTZONE and P25 Trunking (optional)

The TDFM-9100 is designed to meet the demands of Airborne Law Enforcement and EMS operators.

- P25 capable Bandwidths VHF, UHF-Lo, UHF-Hi and 700/800 MHz Bands
- Supports P25 Digital/Analog Operation in Conventional or Trunked Modes
- Front Panel Connector for Module Programming via USB and Encryption Key loading
- Optional Encryption Protocols AES, DES, DES-XL, DES-OFB. ADP encryption is standard in all modules
- Each module supports 3000 channels/200 zones and can be programmed to operate in either a digital or analog mode on a channel by channel basis.
- Each module supports scan across its entire frequency spectrum even if dual band configured
- Built in audio switching allows RF modules to operate in either a single or combined transceiver configuration

MORE CAPABLE. LESS COST.

New Customer Inquiries
Jim Huddock
Minneapolis, MN
612.231.9020

Corporate Headquarters
240 Traders BLVD.
Mississauga, ON Canada L4Z 1W7
905.890.2113