

# 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

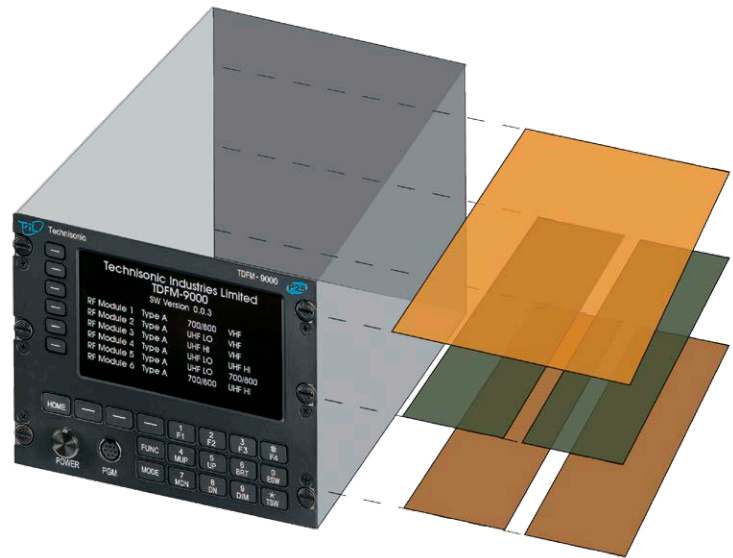
The TDFM-9000 / 9200 / 9300 series radios offer Project 25 Analog/Digital/Encrypted/ Multi-band AM/FM radio transceivers capable of meeting your most demanding operating requirements in both Phase I (FDMA) and Phase II (TDMA) modes. The TDFM-9000 Series consists of multiple models which are configurable 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
- ❑ Conventional Analog
- ❑ Smartnet II / SMARTZONE
- ❑ P25 Phase I FDMA
- ❑ Conventional P25
- ❑ 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](http://www.til.ca)

#### Distribution and Support

Dallas Avionics, Inc.  
Based in Dallas, Texas, distributes and supports  
Technisonic products in North America.  
[www.dallasavionics.com](http://www.dallasavionics.com)  
**214.320.9770 800.527.2581**

#### Corporate Headquarters

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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)
- 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



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

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