

TECHNISONIC

Communications

MISSION-BASED.
PERFORMANCE-DRIVEN.



TDFM-136B
ANALOG/DIGITAL
VHF/FM TRANSCEIVER

TDFM-136B

ANALOG/DIGITAL VHF/FM TRANSCEIVERS

The all new Technisonic TDFM-136B is a Project 25 U.S. Forest Service compliant airborne VHF/FM transceiver. Providing digital or conventional analog FM communications on every currently available channel from 136 to 174 MHz within the VHF/FM band. The new 136B has been designed from the ground up with your forestry mission in mind as a drop-in replacement for existing Technisonic and NPX radio sets.

- The TDFM-136B operates on the Common Air Interface and is capable of multimode operation at 12.5 kHz analog* and Project 25 12.5 kHz digital modulation on a channel-by-channel basis.
- The TDFM-136 transceiver features a Two Channel Synthesized Guard receiver.
- Allows up to 230 non-volatile memory positions (channels) via front panel 12 button key pad, or downloaded from a PC.
- Direct Entry or Simplex mode is accomplished by simply keying in the desired operating frequency.
- A 48-Character, 2 line LED matrix display, is available in green or optional NVG compatible.
- Support of unique CTCSS and DCS signaling for transmit and receive frequencies.
- New architecture is based on Digital Signal Processor (DSP) technology and does not depend on availability of proprietary chip sets from competitive vendors.
- Encryption support of DES single bit cypher feedback encryption to enable operation with existing systems and is upgradeable to Project 25 DES OFB or AES encryption standard.
- A USB upload/download function allows the operator to program all radios via a PC.
- Scan enabled across any or all of the channels stored in the preset memory positions.
- The TDFM-136B transceiver is panel-mounted (standard Dzus) and completely self-contained in a 3.0" (H), 5.75" (W) and 8.0" (D) chassis weighing just 3.5 pounds.
- Front panel controls are MAIN for main channel volume, GUARD for guard channel.



TDFM-136B GENERAL SPECIFICATIONS

Frequency Range:

136.000 MHz to 174.000 MHz

Operating Modes:

Project 25 CAI and conventional analog simplex or semi duplex

P25 Conventional Digital Mode

Channel Spacing: 12.5 /25 kHz * (230 Preset Channels)

Dimensions: 3.0" (H), 5.75" (W) and 8.0" (D)

Weight: 3.5 Lbs (1.6 Kg)

Temperature Range: -45°C to 70°C

Power Requirement: 28 V DC

Certification: FCC and DOC Type Approved

Guard receiver: 2 channel synthesized

CTCSS Squelch Capability:

Encodes/decodes all 64 available tones

DPL/DCS capability: All available digital squelch codes

DTMF Encoder: All standard DTMF tones supported

Audio Output: 500mW into 600 ohms

Speaker Output: 2.5 Watts into 4 ohms

Backlighting: 28V DC or 5V DC, software selectable

* 25 kHz analog operation is only enabled where permitted by statute

MORE CAPABLE. LESS COST.

Corporate Headquarters

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