

Tactical Communication Products: RT-5000 P-25 Models



PRODUCT DESCRIPTION

New versions of the RT-5000 Transceiver can perform P-25 digital modulation in addition to Motorola Trunking. Up to two modules covering the VHF, UHF, and 800 MHz Trunking bands can be incorporated into the Transceiver, giving the user unprecedented communications interoperability. In addition, numerous encryption algorithms have been built into these modules that give optimum performance of the AES, DES, DVP, DVI and OTAR algorithms. All new options are available as upgrades for previous models. Contact Wulfsberg Repair and Overhaul for details.

Features

29.7-960 MHz Main Transceiver
10 Watts FM/15 Watts AM (Nominal)
TX Power
1.25 kHz Tuning

12.5/25/35/70 kHz IF Bandwidths
CTCSS/DCS Tone Squelch
FAA PMA Certified (Pending)

Options

136 – 174 MHz P25 Module
403 – 470 MHz P25 Module
380 – 470 MHz P25 Module
450 – 520 MHz P25 Module
764 – 870 MHz
806 – 869 MHz P25 Module
Encryption: DES-XL, DES-OBF,
DVP-XL, DVI-XL, AES

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Specifications

Voltage Requirements	Voltage: 27.5 Vdc +/-20%
Current Requirements	Receive: 2.5 Amp, Transmit: 10.0 Amp Max
Weight	18 to 18.5 lbs. (8.16 to 8.39 kg)
Temperature	-22°F to 140°F (-30°C to +60°C)
Frequency Range	29.7-400 MHz (AM); 29.7-960 MHz (FM)
Channeling	12.5/20/25/30/50 kHz
Tunability	1.25 kHz steps

Available Configurations (contact Wulfsberg for alternate configurations)

The following transceiver part numbers -5011 and above will be available on or before 6/30/2005:

400-015525-5011	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), Analog FM&P-25 Digital SmartZone/Omnalink P-25 Trunking (3600&9600 Control Chn) Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR FM2b: UHF (764-870 MHz), Analog FM& P-25 Digital SmartZone/Omnalink P-25 Trunking (3600&9600 Control Chn) Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR
400-015525-5111	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), Analog FM&P-25 Digital SmartZone/Omnalink P-25 Trunking (3600&9600 Control Chn) Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR FM2b: UHF (380-470 MHz), Analog FM& P-25 Digital SmartZone/Omnalink P-25 Trunking (3600&9600 Control Chn) Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR
400-015525-5211	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), Analog FM&P-25 Digital SmartZone/Omnalink P-25 Trunking (3600&9600 Control Chn) Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR FM2b: UHF (450-520 MHz), Analog FM& P-25 Digital SmartZone/Omnalink P-25 Trunking (3600&9600 Control Chn) Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR
400-015525-5311	FM1: 29.7-960 MHz FM/AM Analog FM2a: UHF (764-870 MHz), Analog FM&P-25 Digital SmartZone/Omnalink P-25 Trunking (3600&9600 Control Chn) Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR
400-015525-5411	FM1: 29.7-960 MHz FM/AM Analog FM2a: UHF (380-470 MHz), Analog FM&P-25 Digital SmartZone/Omnalink P-25 Trunking (3600&9600 Control Chn) Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR
400-015525-5511	FM1: 29.7-960 MHz FM/AM Analog FM2a: UHF (450-520 MHz), Analog FM&P-25 Digital SmartZone/Omnalink P-25 Trunking (3600&9600 Control Chn) Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR
400-015525-5611	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), Analog FM&P-25 Digital SmartZone/Omnalink P-25 Trunking (3600&9600 Control Chn) Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR

The following transceiver part numbers (-0611 to -3411) must be ordered BEFORE 6/30/2005:

400-015525-0611	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-0711	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking
400-015525-0811	FM1: 29.7-960 MHz FM/AM Analog FM2a: UHF (403-470 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR

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The following transceiver part numbers (-0611 to -3411) must be ordered BEFORE 6/30/2005 (cont'd):

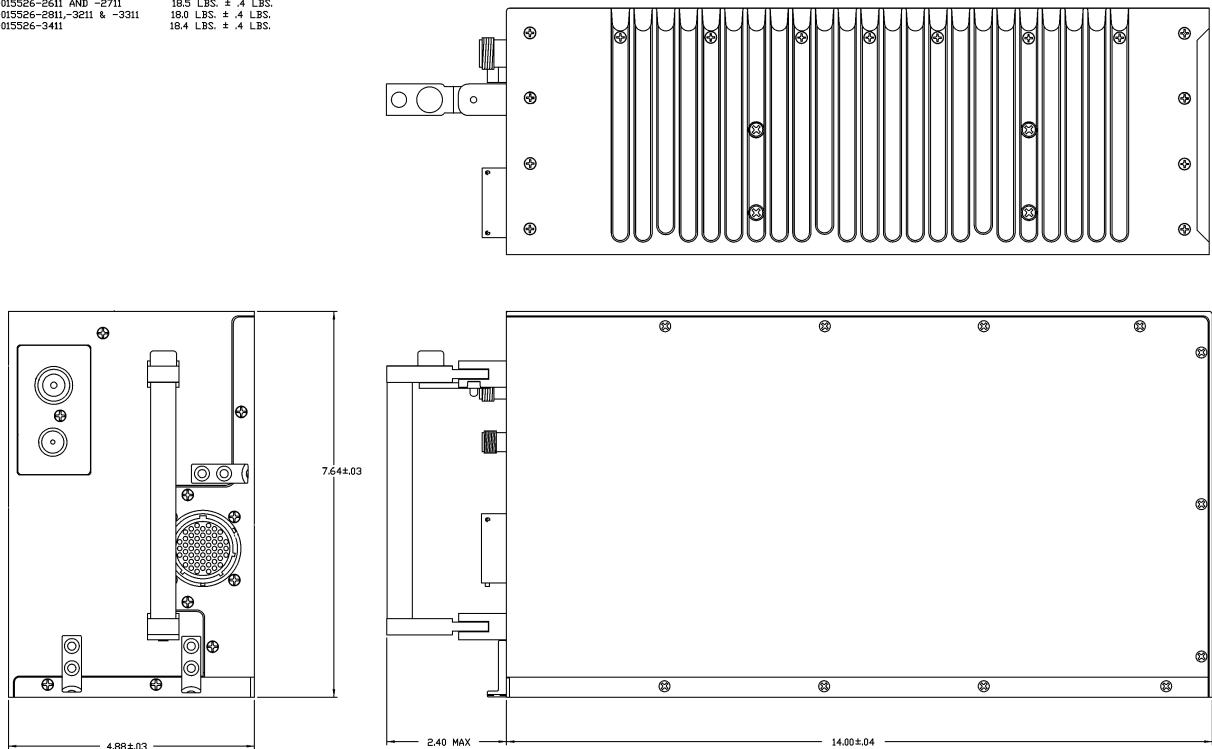
400-015525-0911	FM1: 29.7-960 MHz FM/AM Analog FM2a: UHF (403-470 MHz), P-25 CAI, SmartNet Trunking
400-015525-1011	FM1: 29.7-960 MHz FM/AM Analog FM2a: UHF (450-520 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-1111	FM1: 29.7-960 MHz FM/AM Analog FM2a: UHF (450-520 MHz), P-25 CAI, SmartNet Trunking
400-015525-1211	FM1: 29.7-960 MHz FM/AM Analog FM2a: 800 MHz, P-25 CAI, SmartZone Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-1311	FM1: 29.7-960 MHz FM/AM Analog FM2a: 800 MHz, P-25 CAI, SmartZone Trunking
400-015525-1411	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR FM2b: 800 MHz, P-25 CAI, SmartZone Trunking
400-015525-1511	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking FM2b: 800 MHz, P-25 CAI, SmartZone Trunking
400-015525-1611	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR FM2b: 800 MHz, P-25 CAI, SmartZone Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-1711	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking FM2b: 800 MHz, P-25 CAI, SmartZone Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-1811	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR FM2b: UHF (450-520 MHz), P-25 CAI, SmartNet Trunking
400-015525-1911	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking FM2b: UHF (450-520 MHz), P-25 CAI, SmartNet Trunking
400-015525-2011	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR FM2b: UHF (450-520 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-2111	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking FM2b: UHF (450-520 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-2211	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR FM2b: UHF (403-470 MHz), P-25 CAI, SmartNet Trunking
400-015525-2311	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking FM2b: UHF (403-470 MHz), P-25 CAI, SmartNet Trunking
400-015525-2411	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR FM2b: UHF (403-470 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-2511	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking FM2b: UHF (403-470 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-2611	FM1: 29.7-960 MHz FM/AM Analog FM2a: UHF (450-520 MHz), P-25 CAI, SmartNet Trunking DVI-XL Encryption

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The following transceiver part numbers (-0611 to -3411) must be ordered **BEFORE 6/30/2005 (cont'd):**

400-015525-2711	FM1: 29.7-960 MHz FM/AM Analog FM2a: 800 MHz, P-25 CAI, SmartZone Trunking DVI-XL Encryption
400-015525-2811	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI Multikey Encryption (DES/DES-XL/DES-OFB)
400-015525-2911	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking DVP-XL Encryption
400-015525-3011	FM1: 29.7-960 MHz FM/AM Analog FM2a: 800 MHz, P-25 CAI, P-25 Trunking (9600 Baud) Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-3111	FM1: 29.7-960 MHz FM/AM Analog FM2a: 800 MHz, P-25 CAI, P-25 Trunking (9600 Baud)
400-015525-3211	FM1: 29.7-960 MHz FM/AM Analog FM2a: UHF (403-470 MHz), P-25 CAI, SmartZone Trunking Multikey Encryption (DES/DES-XL/DES-OFB), OTAR
400-015525-3311	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR
400-015525-3411	FM1: 29.7-960 MHz FM/AM Analog FM2a: VHF (136-174 MHz), P-25 CAI, SmartNet Trunking Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR FM2b: UHF (450-520 MHz), P-25 CAI, SmartZone Trunking Multikey Encryption (AES/DES/DES-XL/DES-OFB), OTAR

FLAVOR	WEIGHT
400-015526-0611 THRU -0711	18.0 LBS. ± 4 LBS.
400-015526-0811 THRU -1311	18.0 LBS. ± 4 LBS.
400-015526-1411 THRU -2511	18.5 LBS. ± 4 LBS.
400-015526-2611 AND -2711	18.5 LBS. ± 4 LBS.
400-015526-2811, -3211 & -3311	18.0 LBS. ± 4 LBS.
400-015526-3411	18.4 LBS. ± 4 LBS.



**Figure 26. RT-5000 P-25 Outline Drawing
Portions of Dwg No. 154-015526**