

# MOTOTRBO™ DIGITAL TWO-WAY PORTABLE RADIOS

## THE FUTURE OF BUSINESS COMMUNICATION, DELIVERED TODAY



Make technology more productive and personal. You asked for a forward-thinking way to connect your people to their work, wherever they go. An innovative business tool that increases their efficiency while lowering your costs. Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. It integrates voice and data seamlessly, offers enhanced features that are easy to use and delivers increased capacity to meet your communication needs from the field to the factory floor. With exceptional voice quality and long battery life, MOTOTRBO keeps your work teams connected when communication is a must.

#### **HIGH-POWERED PERFORMANCE**

Because MOTOTRBO uses TDMA digital technology, it delivers integrated voice and data, twice the calling capacity plus clearer voice communications. When it comes to battery performance, MOTOTRBO radios operate 40 percent longer between recharges compared to analog. In fact, the leading-edge IMPRES™ technology in our batteries, chargers and audio accessories also ensures longer talk time and clearer audio.

## INDUSTRY-LEADING APPLICATIONS

Motorola's Application Developer Program offers customized data applications so you can adapt your radios to your unique business needs. Because we've created the largest developer program in the industry, we can provide nimble applications that address your challenges and answer your objectives — from work order ticket management to network management, email gateways to location tracking, dispatch consoles to telephony integration, and beyond.

Whether you want to send text messages or track work order information, pinpoint work crew locations with integrated GPS or manage your fleet from a central dispatch location, MOTOTRBO paves the way — with customizable data applications on one convenient device.





MOTOTRBO PORTABLE RADIOS

#### ADDED FUNCTIONALITY

MOTOTRBO offers added functionality, including dispatch capability with the MIP 5000 VoIP console, enhanced call signaling, basic and enhanced privacy-scrambling, option board expandability and compatibility with SCADA solutions for utility and public service monitoring and alarms. Plus digital telephone interconnect capability to enable communication between radios and landline or mobile phones as well as a transmit interrupt suite — with voice interrupt, emergency voice interrupt or data over voice interrupt — to prioritize critical communication the moment you need it.

### **EXPANDED CAPACITY AND COVERAGE**

Your workforce is hard at work every day — picking up loads, making road repairs, providing security, responding to guest requests or restoring power after a storm. That's why you need the proven performance of MOTOTRBO radio systems for non-stop communication no matter the size of your work force, no matter where they go.

MOTOTRBO's IP Site Connect dramatically improves customer service and productivity by using the Internet to extend coverage to users anywhere in the world. Our scalable, single-site Capacity Plus solution expands capacity to over 1,000 users without adding new frequencies. Connect Plus multi-site digital trunking enables you to

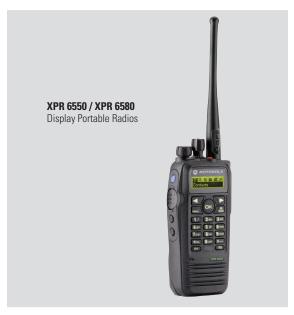
accommodate the high volume, wide area communication your business requires. Whether you need coverage at a single site or across multiple sites, MOTOTRBO can be scaled to meet your needs.

#### **MIGRATE AT YOUR OWN PACE**

Keeping operations running smoothly during a change in communication systems is vital to your business. It's easy to migrate to digital with MOTOTRBO because radios operate in analog and digital mode while the dynamic mixed mode repeater functionality streamlines automatic switching between analog and digital calls. So you can begin using MOTOTRBO radios and repeaters on your existing analog system, and when your time and budget allow you can begin migrating to digital at your own pace.

#### **RELIABLE DURABILITY**

MOTOTRBO meets the most demanding specs, including IP57 for water submersibility (portables) and U.S. Military 810 C, D, E and F. It's "intrinsically safe" when purchased and equipped with an FM/CSA battery, for use where flammable gas, vapors or combustible dust may be present. And backed by a two-year Standard Warranty, one-year Repair Service Advantage (US)/Extended Warranty (Canada) and minimum 1-year warranty for accessories.





#### PRODUCT SPEC SHEET

MOTOTRBO™ XPR™ 6550/XPR 6350 PORTABLE RADIOS

	DISPLAY XPR 6550			NON-DISPLAY XPR 6350						
	VHF	UHF Band I	UHF Band II	VHF	UHF Band I	UHF Band II				
Channel Capacity		Up to 1,000			32					
Frequency	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz				
Dimensions	5.18 in H x 2.5 in W x 1.39 in L (131.5 mm H x 63.5 mm W x 35.2 mm L)			5.18 in H x 2.5 in W x 1.39 in L (131.5 mm H x 63.5 mm W x 35.2 mm L)						
Weight (with IMPRES Li-Ion 1500 mAh Battery)	(131.5 min + x 63.5 min w x 35.2 min L) 12.7 oz (360 g)			11.63 oz (330 g)						
(with IMPRES Li-lon 1400 mAh FM Battery)		13 oz (370 g)		11.98 oz (340 g)						
with IMPRES Li-lon 2150 mAh Battery)		13.17 oz (375 g)		12.12 oz (345 g)						
(with NiMH 1300 mAh Battery)		15.2 oz (430 g)		14.09 oz (400 g)						
Power Supply	7.5 V nominal				7.5 V nominal					
FCC Description	AZ489FT3815	AZ489FT4876	AZ489FT4884	AZ489FT3815	AZ489FT4876	AZ489FT4884				
C Description	109U-89FT3815 109U-89FT4876 109U-89FT4884		109U-89FT3815	109U-89FT4876	109U-89FT4876 109U-89FT4884					
Average battery life at 5/5/90 duty cycle with batt	tery saver enabled in carrie		gh power.							
MPRES Li-lon 1500 mAh Battery	Analog: 9 hrs			Analog: 9 hrs						
IMPRES Li-Ion FM 1400 mAh Battery	Digital: 13 hrs Analog: 8.5 hrs			Digital: 13 hrs Analog: 8.5 hrs						
The second secon		Digital: 12 hrs		Digital: 12 hrs						
MPRES Li-lon 2150 mAh Battery		Analog: 13.5 hrs		Analog: 13.5 hrs						
NiMH 1300 mAh Battery	Digital: 19 hrs Analog: 8 hrs			Digital: 19 hrs Analog: 8 hrs						
WINTER TOOL TIP IT BULLETY		Digital: 11 hrs			Digital: 11 hrs					
RECEIVER: DISPLAY XPR 6550 & NON-	DISPLAY XPR 6350			GPS: DISPLAY XPF	R 6550 & NON-DIS	PLAY XPR 6350				
Frequencies	136-174 MHz	403-470 MHz	450-512 MHz	Accuracy specs are for lo	ong-term tracking (95th	percentile values > 5	satellites visible at	a nominal -130		
·				dBm signal strength)						
Channel Spacing		12.5 kHz / 25 kHz*		TTFF (Time To First Fix) Cold Start	< 2 minutes					
Frequency Stability		+/- 0.5 ppm		TTFF (Time To First Fix)	< 10 seconds					
(-30° C, +60° C, +25° C)	т/- 0.9 ррпп			Hot Start	100000100	< 10 accounts				
Analog Sensitivity		0.35 uV			<10 meters					
(12dB SINAD)		0.22 uV (typical)								
Digital Sensitivity	5% BER: 0.3 uV			MILITARY STANDA	RDS: DISPLAY XPR 6550 & NON-DISPLAY XPR 6350					
ntermodulation (TIA603C)	70 dB					IOE		10F		
Adjacent Channel Selectivity				Applicable MIL-STD	Methods	Procedures	Methods	Procedures		
TIA603	60 dB @ 12.5 kHz, 70 dB @25 kHz*			Low Pressure	500.3	II	500.4	II		
FIA603C	45 dB @ 12.5 kHz, 70 dB @25 kHz*			High Temperature	501.3	I/A, II/A1	501.4	I/Hot, II/Ho		
Spurious Rejection (TIA603C)	70 dB			Low Temperature	502.3	I/C3, II/C1	502.4	I/C3, II/C1		
Rated Audio	500 mW			Temperature Shock	503.3	I/A, 1C3	503.4	I		
Audio Distortion @ Rated Audio	3% (typical)		Solar Radiation	505.3	I	505.4	1			
Hum and Noise		-40 dB @ 12.5 kHz		Rain	506.3	1, 11	506.4	1, 111		
		-45 dB @ 25 kHz*		Humidity	507.3	II	507.4	-		
Audio Response		TIA603C		Salt Fog	509.3	I	509.4	1		
Conducted Spurious Emission (TIA603C)	-57 dBm		Dust	510.3	I	510.4	- 1			
TRANSMITTER: DISPLAY XPR 6550 &	NON-DISPLAY XPR	350		Vibration	514.4	I/10, II/3	514.5	1/24		
Frequencies	136-174 MHz	403-470 MHz	450-512 MHz	Shock	516.4	I, IV	516.5	I. IV		
Channel Spacing	12.5 kHz / 25 kHz*			NVIRONMENTAL SPECIFICATIONS: DISPLAY XPR 6550 & NON-DISPLAY XPR 65						
Frequency Stability (-30° C, +60° C, +25° C Ref.)				Operating Temperature		. DISI LAI AI II O	330 & 14014-D13	LAI AI II 05.		
	1 \\/	+/- 0.5 ppm			-30° C / +60° C -40° C / +85° C					
Low Power Output		1 W 1 W		Storage Temperature						
High Power Output	5 W 4 W		Thermal Shock	Per MIL-STD						
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz*		Humidity	Per MIL-STD						
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz*			ESD	IEC-801-2KV					
Conducted / Radiated Emission	-36 dBm < 1 GHz			Dust and Water	IEC 60529 - IP57					
	-30 dBm > 1 GHz		Intrusion	MIL CTD 010D and F						
Adjacent Channel Power	60 dB @ 12.5 kHz 70 dB @ 25 kHz*			Packaging Test	MIL-STD 810D and E					
Audio Response	TIA603C			Testing completed using portable radio with attached battery and antenna.						
Audio Distortion	3%			FACTORY MUTUAL APPROVALS: DISPLAY XPR 6550 & NON-DISPLAY XPR 6350						
	12.5 kHz: 11K0F3E									
EM Modulation	12.5 kHz* : 16K0F3E			MOTOTRBO XPP Series portable radios have been certified by FM and CSA Approvals in accordance with Canada and U.S. Codes as intrinsically safe for use in Class I, II, III, Division 1, Groups C, D, E, F, G, when properly equipped with a Motorola FM approved battery option. They are also approved for use in Class I Division 2, Groups A, B, C, D.						
FM Modulation				Division 2, Groups A. B.	U, D.					
		12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FX		Division 2, Groups A, B,						
FM Modulation  4FSK Digital Modulation  Digital Vocoder Type				Division 2, Groups A, B,	®Ex	ia				

\*As of 1/1/2013, 25 kHz is no longer available on new equipment in the United States.

\*\*Radio only. Li-lon battery -10° C; NiMH battery -20° C.

Specifications subject to change without notice. All specifications shown are typical.

Radio meets applicable regulatory requirements. Version 11 01/14

Channell Capacity   Up to 1000   Up to 1000   Up to 1000   Mode and 1000	GENERAL SPECIFICATIONS			MILITARY STANDAR	RDS				
Frequency aim		NON-DISPLAY XPR 6380	810E 810F						
### STATE   S	Channel Capacity	Up to 1000	Up to 32	Applicable MIL-STD	Methods	Procedures	Methods	Procedure	
131 St 5mm 4 x 525 mm W x 525 m					500.3		500.4	ll ll	
Process Depty    7.5 V nominal   7.5 V nomin	Dimensions with Li-Ion Battery			High Temperature	501.3	I/A, II/A1	501.4	I/Hot, II/Ho	
AZZESFEQ11   AZZESFEQ11   AZZESFEQ11   Solar Rediation   505.3   1   550.4	Weight with IMPRES Li-lon 2150 mAh Battery	13.17 oz (375 g)	12.12 oz (345 g)	Low Temperature	502.3	I/C3, II/C1	502.4	I/C3, II/C1	
Clinectripsine   100ABS-98FS011   100ABS-98FS011   50BA 98FS011	Power Supply	7.5 V nominal	7.5 V nominal	Temperature Shock	503.3	I/A, 1C3	503.4	I	
Average battery   fife at 55/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power.   Hemidity   50/2 3   8   507.4	FCC Description	ABZ99FT5011	ABZ99FT5011	Solar Radiation	505.3	I	505.4	I	
MPRES 14-on 2159 mAP Battery	C Description	109AB-99FT5011	109AB-99FT5011	Rain	506.3	I, II	506.4	1, 111	
Marelice   March   Marelice   M	Average battery life at 5/5/90 duty cycle with b	attery saver enabled in carrier squelch and t	ransmitter in high power.	Humidity	507.3		507.4	_	
### RECEIVER  ### 800 MHz 554-866 MHz and 859-870 MHz 7500 MHz 750-941 MHz  ### Shock  ### B00 MHz 12-5 and 25 941-790 MHz 12-5 MHz  ### BVIRIONMENTAL SPECIFICATIONS  ### BVIR	· · · · · · · · · · · · · · · · · · ·			-				I	
Shook   Shoo		Analog: 9 hrs / Digital: 12 hrs	Analog: 9 hrs / Digital: 12 hrs					I	
Charmed Spacing	RECEIVER			Vibration	514.4		514.5	1/24	
Prequency Stability   30" C, +80" C, +29" C	Frequencies	800 MHz: 854-866 MHz and 869-8	70 MHz / 900 MHz: 935-941 MHz	Shock	516.4	I, IV	516.5	I, IV	
Analog Sensitivity (12 dB SINAD) Typical  0 25 uV  Operating Temperature WinMPRIS L4 ion battery)  10° C to +80° C  Intermodiation (TIAGGSC)  70 dB  1 bermal Shock Per MIL-STD  Adjacent Channel Selectivity (TIAGGSC) - 17  60 dB © 12 5 ktr / 70 dB © 25 ktr  45 dB © 12 5 ktr / 70 dB © 25 ktr  70 dB  Dust and Wester Intrusion IEC 60529 - IPS4  Read Audio Sensors  Read Audio Shock Per MIL-STD  Adjacent Channel Selectivity (TIAGGSC) - 27  45 dB © 12 5 ktr / 70 dB © 25 ktr  5 W Peckaging Test Mil-STD 8100 and E  160 60529 - IPS4  Read Audio Shock Per MIL-STD  Dust and Wester Intrusion IEC 60529 - IPS4  Read Audio Shock Per MIL-STD  Adjacent Channel Selectivity (TIAGGSC) - 27  45 dB © 12 5 ktr / 70 dB © 25 ktr  Feckaging Test Mil-STD 8100 and E  Audio Destoration © Rated Audio  5 W Peckaging Test Mil-STD 8100 and E  Feckaging Test Mil-STD 8100 and E  Feckaging Test Audio Destoration © Rated Audio  Audio Destoration © Rated Audio  5 W Peckaging Test  Audio Destoration © Rated Audio  Audio Destoration © Rated Audio  Audio Destoration © Rated Audio  Audio Personase  TIAGGSC  TRANSMITTER  Trequencies  800 Mir. 809-821 Mirt. 824-825 Mirt. 854-866 Mirt. and 889-870 Mirt. 20 5 Mirt.	Channel Spacing	800 MHz: 12.5 and 25	kHz / 900 MHz: 12.5 kHz	ENVIRONMENTAL SPECIFICATIONS					
Loy/MR/FIES Livino battery	Frequency Stability (-30° C, +60° C, +25° C)	+/- 0.	5 ppm	Operating Temperature	-30° C / +60° C				
Thermal Shock   Per MIL-STD	Analog Sensitivity (12 dB SINAD) Typical	0.2	0.25 uV			-10° C to +60° C			
Adjacent Channel Selectivity (TIA603) - 1T	Digital Sensitivity	5% BEI	5% BER: 0.3 uV			-40° C to +85° C			
Adjacent Channel Selectivity (TIA603C) - 2T	Intermodulation (TIA603C)	70	Thermal Shock	Per MIL-STD					
Dust and Water Intrusion   Rec 86529 - IP54	Adjacent Channel Selectivity (TIA603) - 1T	60 dB @ 12.5 kHz	Humidity	Per MIL-STD					
Packaging Test   MIL-STD 8100 and E	Adjacent Channel Selectivity (TIA603C) - 2T	45 dB @ 12.5 kHz	ESD	IEC-801-2KV					
Audio Distortion @ Rated Audio  3% (typical)  Testing completed using portable radio with attached battery and antenna.  40 dB @ 12.5 kHz / -45 dB @ 25 kHz  TARGOSC  TARGOSC  TOORY MUTURIA APPROVALS  MOTOTRBO XPR Series portable radios have been certified by FM and CSA Approvals in Conducted Spurious Emission (ETSI)  5-7 dBm  TRANSMITTER  Frequencies  800 MHz: 809-821 MHz, 824-825 MHz, 864-866 MHz and 869-870 MHz ago 400 MHz: 12.5 and 25 kHz / -0.5 ppm  800 MHz: 12.5 and 25 kHz / 90.0 MHz: 12.5 kHz 2  Frequency Stability (-30° C, +60° C)  4-0.5 ppm  1.W  ONLY THE FOLLOWING FREQUENCIES ARE SUPPORTED BY THE XPR PROVED  Which are also approved battery option. They are also approved by the and separation of the properly equipped with a Motorola FN approved battery option. They are also approved by the analysis of the properly equipped with a Motorola FN approved battery option. They are also approved by the properly equipped with a Motorola FN approved battery option. They are also approved by the properly equipped with a Motorola FN approved battery option. They are also approved by FN and SSP APPROVED  TRANSMITTER  **COMMAND APPROVED***  **COMMAND APPROVED***  **DOM MHz: 12.5 and 25 kHz / -0.5 ppm  **ONLY THE FOLLOWING FREQUENCIES ARE SUPPORTED BY THE XPR PROVED  **PROVED***  **DOM MHz SSP APPROVED***  **DOM MHz SSP APPROVED**  **DOM MHz SSP APPROVED***  **SEX 10.125 BSD ASS APPROVED**  **SEX 10.12	Spurious Rejection (TIA603C)	70	Dust and Water Intrusion	IEC 60529 - IP54					
Hum and Noise	Rated Audio	.5	Packaging Test	MIL-STD 810D and E					
Audio Response Conducted Spurious Emission (ETSI) Audio Response TIA603C Conducted Spurious Emission (ETSI)  Band Receive Transmit Modulation Limiting Adjacent Channel Power Adjacent Channel Power Adjacent Channel Power Adjacent Channel Power Audio Distortion (per EIA) 3% FM Modulation 12.5 kHz / 11k0782 / 25 kHz / 25 kHz / 16k0782 Audio Distortion (per EIA) 3% FM Modulation 12.5 kHz / 25 kHz / 25 kHz / 25 kHz / 15 kHz / 15 kHz / 15 kHz / 15 kHz / 25 kHz /	Audio Distortion @ Rated Audio	3% (t	Testing completed using portable radio with attached battery and antenna.						
Conducted Spurious Emission (ETSI)  -57 dBm  -57 dBm  -57 dBm  -58 MINITER  -58 MINITER  -59 MINITER  -50 MI	Hum and Noise	-40 dB @ 12.5 kHz	FACTORY MUTUAL APPROVALS						
## Display   Property   equipped with a Motorola FM approved battery option. They are also approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved battery option. They are also approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved battery option. They are also approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved battery option. They are also approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved battery option. They are also approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved battery option. They are also approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved battery option. They are also approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved battery option. They are also approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved battery option. They are also approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved battery option. They are also approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approved Division 2, Groups A, B, C, D.  ### Property   equipped with a Motorola FM approve	Audio Response	TIA603C		MOTOTRBO XPR Series portable radios have been certified by FM and CSA Approvals in accordance with					
Division 2, Groups A, B, C, D	Conducted Spurious Emission (ETSI)	-57	Canada and U.S. Codes as intrinsically safe for use in Class I, II, III, Division 1, Groups C, D, E, F, G, when						
Source   Spacing   Source   Spacing   Source   Shell   Spacing   Spa	TRANSMITTER					attery option. They	ате атао арргом	su for use in olass i,	
APPROVED	Frequencies		© FM US R Exia						
Description   Temperature	Channel Spacing								
High Power Output   2.5 W   Band   Receive   Transmit	Frequency Stability (-30° C, +60° C)								
Modulation Limiting         +/- 2.5 kHz @ 12.5 kHz / +/- 5.0 kHz @ 25 kHz         800 MHz         851.0125         806.0125           FM Hum and Noise         -40 dB @ 12.5 kHz / -45 dB @ 25 kHz         851.5125         806.5125         807.0125           Conducted / Rated Emission (ETSI)         -36 dBm < 1 GHz / -30 dBm > 1 GHz         852.0125         807.0125         807.0125           Adjacent Channel Power         -60 dB @ 12.5 kHz / -70 dB @ 25 kHz         852.5125         807.5125         807.5125           Audio Response         TIA603C         853.0125         808.0125         808.0125           Audio Distortion (per EIA)         3%         854.000 - 865.9875         809.000 - 820.9875         809.000 - 820.9875         809.000 - 820.9875         866.0125           FM Modulation         12.5 kHz: 11K0F3E / 25 kHz: 16K0F3E         866.0125         821.0125         866.0125         821.0125           4FSK Digital Modulation         12.5 kHz Data Only: 7K60FXD / 12.5 kHz Data & Voice: 7K60FXE         866.0125         821.5125         867.0125         822.0125           Digital Protocol         ETSI TS 102 361-1, -2, -3         867.5125         867.5125         822.5125         867.5125         822.5125         867.5125         822.5125         869.002 - 870.000         824.000 - 825.000         869.002 - 870.000         824.000 - 825.000 <t< td=""><td>Low Power Output</td><td>1</td><td>W</td><td>ONLY THE FOLLOWIN</td><td>G FREQUENCIES A</td><td>RE SUPPORTE</td><td>D BY THE XP</td><td>R 6580 / XPR 638</td></t<>	Low Power Output	1	W	ONLY THE FOLLOWIN	G FREQUENCIES A	RE SUPPORTE	D BY THE XP	R 6580 / XPR 638	
FM Hum and Noise	High Power Output	2.5 W		Band	Receive		Transn	nit	
Reducted   Rated Emission (ETSI)   .36 dBm < 1 GHz / -30 dBm > 1 GHz	Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz / +/- 5.0 kHz @ 25 kHz		800 MHz	851.0125	806.	0125	851.0125	
Adjacent Channel Power  -60 dB @ 12.5 kHz / -70 dB @ 25 kHz  Audio Response  TIA603C  Audio Distortion (per EIA)  852.5125  807.5125  808.0125  853.0125  808.0125  854.000 - 865.9875  809.000 - 820.9875  80	FM Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 25 kHz			851.5125	806.	5125	851.5125	
Audio Response TIA603C Audio Distortion (per EIA) 3%  FM Modulation 12.5 kHz: 11K0F3E / 25 kHz: 16K0F3E  4FSK Digital Modulation 12.5 kHz Data Only: 7K60FXD / 12.5 kHz Data & Voice: 7K60FXE  Digital Vocoder Type AMBE +2™  Digital Protocol ETSI TS 102 361-1, -2, -3  GPS  Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)  TIFF (Time To First Fix) Cold Start < 2 minutes  900 MHz 935.000 - 941.000 896.000 - 902.000 99	Conducted / Rated Emission (ETSI)	-36 dBm < 1 GHz / -30 dBm > 1 GHz			852.0125	807.	0125	852.0125	
Audio Distortion (per EIA)  3%  FM Modulation  12.5 kHz: 11K0F3E / 25 kHz: 16K0F3E  4FSK Digital Modulation  12.5 kHz Data Only: 7K60FXD / 12.5 kHz Data & Voice: 7K60FXE  Digital Vocoder Type  AMBE +2™  B66.5125  821.0125  866.5125  822.0125  867.0125  867.0125  867.0125  867.0125  867.0125  867.0125  867.0125  867.5125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  868.0125  869.000 - 870.000  824.000 - 825.000  817FF (Time To First Fix) Cold Start  < 2 minutes  900 MHz  935.000 - 941.000  896.000 - 902.000  896.000 - 902.000	Adjacent Channel Power	-60 dB @ 12.5 kHz / -70 dB @ 25 kHz			852.5125	807.	5125	852.5125	
FM Modulation 12.5 kHz: 11K0F3E / 25 kHz: 16K0F3E 866.0125 821.0125 821.0125 84FSK Digital Modulation 12.5 kHz Data Only: 7K60FXD / 12.5 kHz Data & Voice: 7K60FXE 866.5125 821.5125 821.5125 821.0125 8	Audio Response	TIA603C			853.0125	808.	0125	853.0125	
FM Modulation 12.5 kHz: 11K0F3E / 25 kHz: 16K0F3E 866.0125 821.0125 821.0125 84FSK Digital Modulation 12.5 kHz Data Only: 7K60FXD / 12.5 kHz Data & Voice: 7K60FXE 866.5125 821.5125 821.5125 821.5125 821.5125 821.5125 821.5125 821.5125 821.5125 821.5125 821.5125 821.5125 821.5125 822.0125 821.5125 822.0125 821.5125 822.5125 8	Audio Distortion (per EIA)			1	854.000 - 865.987	5 809.000 -	820.9875	854.000 - 865.987	
#FSK Digital Modulation 12.5 kHz Data Only: 7K60FXD / 12.5 kHz Data & Voice: 7K60FXE   Digital Vocoder Type    #FSK Digital Vocoder Type    #FSK Digital Vocoder Type    #FSK Digital Protocol    #FSI TS 102 361-1, -2, -3    #FST S 102 361-1, -2, -3    #F		12.5 kHz: 11K0F3E / 25 kHz: 16K0F3E		-	866.0125	821.	0125	866.0125	
B67.0125   B22.0125		<u> </u>		1	866.5125	821.	5125	866.5125	
B67.5125   B22.5125				1				867.0125	
RGPS         868.0125         823.0125           Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)         869.000 - 870.000         824.000 - 825.000         1           ITFF (Time To First Fix) Cold Start         < 2 minutes	* ''		-				867.5125		
Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)  Ref. (Time To First Fix) Cold Start						868.0125			
TTFF (Time To First Fix) Cold Start < 2 minutes 900 MHz 935.000 - 941.000 896.000 - 902.000		porgantila valuas y E actallitas visible et e					869.000 - 870.00		
			000 MHz						
Libe Llimo To First Fix Hot Stort			SUU IVIHZ	935.000 - 941.000	896.000	- 902.000	935.000 - 941.00		
Horizontal Accuracy < 10 meters	TTFF (Time To First Fix) Hot Start			-					

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements. Version 3 01/14  $\,$ 

For more information on how to make your business more efficient and better connected, visit **www.motorolasolutions.com/mototrbo**.

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