

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.







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.

XPR 6550 / XPR 6580 Display Portable Radios



XPR 6350 / XPR 6380 Non-Display Portable Radios

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	(13	5.18 in H x 2.5 in W x 1.39 in 1.5 mm H x 63.5 mm W x 35.2		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)		12.7 oz (360 g)			11.63 oz (330 g)					
with IMPRES Li-Ion 1400 mAh FM Battery)		13 oz (370 g)			11.98 oz (340 g)					
with IMPRES Li-lon 2150 mAh Battery) with NiMH 1300 mAh Battery)		13.17 oz (375 g) 15.2 oz (430 g)			12.12 oz (345 g) 14.09 oz (400 g)					
		7.5 V nominal			7.5 V nominal					
Power Supply	A 7400ET004E		A 7400FT4004	A 7400FT004F		A 7400FT 400 4				
CC Description	AZ489FT3815	AZ489FT4876	AZ489FT4884	AZ489FT3815	AZ489FT4876	AZ489FT4884 109U-89FT4884				
C Description	109U-89FT3815	109U-89FT4876	109U-89FT4884	109U-89FT3815	109U-89FT4876	1090-89F14884				
Average battery life at 5/5/90 duty cycle with batte MPRES Li-lon 1500 mAh Battery	ery saver enabled in carriel	Analog: 9 hrs	gn power.		Analog: 9 hrs					
WITHES EFIOIT 1300 IIIAII Dattery		Digital: 13 hrs			Digital: 13 hrs					
MPRES Li-lon FM 1400 mAh Battery	Analog: 8.5 hrs				Analog: 8.5 hrs					
MDDEC Li Jan 2150 m Ab Dattan	Digital: 12 hrs				Digital: 12 hrs					
MPRES Li-Ion 2150 mAh Battery	Analog: 13.5 hrs Digital: 19 hrs				Analog: 13.5 hrs Digital: 19 hrs					
NiMH 1300 mAh Battery	Analog: 8 hrs Digital: 11 hrs			Analog: 8 hrs						
				Digital: 11 hrs						
RECEIVER: DISPLAY XPR 6550 & NON-				GPS: DISPLAY XPR						
requencies	136-174 MHz	403-470 MHz	450-512 MHz	Accuracy specs are for lo dBm signal strength)	ng-term tracking (95th	percentile values > 5	5 satellites visible a	t a nominal -130		
Channel Spacing		12.5 kHz / 25 kHz*		TTFF (Time To First Fix) Cold Start	-					
requency Stability -30° C, +60° C, +25° C)	+/- 0.5 ppm			TTFF (Time To First Fix) Hot Start	< 10 seconds					
Analog Sensitivity 12dB SINAD)	0.35 uV 0.22 uV (typical)			Horizontal Accuracy	< 10 meters					
Digital Sensitivity		5% BER: 0.3 uV		MILITARY STANDA				250		
0 7		70 dB		WILLIANT STANDA		0E		10F		
ntermodulation (TIA603C)		70 UB		Augliachte Mill CTD			-			
Adjacent Channel Selectivity				Applicable MIL-STD	Methods	Procedures	Methods	Procedure		
1A603	60 dB @ 12.5 kHz, 70 dB @25 kHz*			Low Pressure	500.3		500.4			
1A603C	45 dB @ 12.5 kHz, 70 dB @25 kHz*		High Temperature	501.3	I/A, II/A1	501.4	I/Hot, II/H			
Spurious Rejection (TIA603C)	70 dB		Low Temperature	502.3	I/C3, II/C1	502.4	I/C3, II/C			
lated Audio	500 mW		Temperature Shock	503.3	I/A, 1C3	503.4				
Audio Distortion @ Rated Audio		3% (typical)		Solar Radiation	505.3	1	505.4			
lum and Noise		-40 dB @ 12.5 kHz		Rain	506.3	l, II	506.4	I, III		
		-45 dB @ 25 kHz*		Humidity	507.3	1	507.4	-		
Audio Response		TIA603C		Salt Fog	509.3	1	509.4			
Conducted Spurious Emission (TIA603C)		-57 dBm		Dust	510.3	1	510.4			
RANSMITTER: DISPLAY XPR 6550 & I	NON-DISPLAY XPR 6	350		Vibration	514.4	I/10, II/3	514.5	I/24		
requencies	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*		ENVIRONMENTAL S	SPECIFICATIONS:	DISPLAY XPR 6	550 & NON-DIS	PLAY XPR 63		
requency Stability (-30° C, +60° C, +25° C Ref.)		+/- 0.5 ppm		Operating Temperature	-30° C / +60° C					
ow Power Output	1 W	1 W		Storage Temperature	-40° C / +85° C					
ligh 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	-45 dB @ 25 kHz -45 dB @ 25 kHz			ESD	IEC-801-2KV					
Conducted / Radiated Emission	-45 UB @ 25 KHZ -36 dBm < 1 GHz -30 dBm > 1 GHz			Dust and Water Intrusion	IEC 60529 - IP57					
Adjacent Channel Power	60 dB @ 12.5 kHz			Packaging Test	MIL-STD 810D and E					
Audio Response	70 dB @ 25 kHz* TIA603C			Testing completed using portable radio with attached battery and antenna.						
Audio Distortion		3%		FACTORY MUTUAL	APPROVALS: DI	SPLAY XPR 6550	& NON-DISPL	AY XPB 6350		
FM Modulation	3% 12.5 kHz: 11K0F3E 25 kHz*: 16K0F3E			FACTORY MUTUAL APPROVALS: DISPLAY XPR 6550 & NON-DISPLAY XPR 6350 MOTOTRBO XPR Series portable radios have been certified by FM and CSA Approvals in accordance wi Canada and U.S. Codes as intrinsically safe for use in Class I, II, III, Division 1, Groups C, D, E, F, G, whe properly equipped with a Motorola FM approved battery option. They are also approved for use in Class Division 2, Groups A, B, C, D.						
		12.5 kHz Data Only: 7K60FXI								
IFSK Digital Modulation		12.5 kHz Data & Voice: 7K60F)	(E	$\langle FM \rangle A$						
4FSK Digital Modulation Digital Vocoder Type		12.5 kHz Data & Voice: 7K60F> AMBE +2™	Æ		SF ® Exi	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

PRODUCT SPEC SHEET

MOTOTRBO[™] XPR[™] 6580/XPR 6380 PORTABLE RADIOS

GENERAL SPECIFICATIONS			MILITARY STANDAR	IDS					
	DISPLAY XPR 6580	NON-DISPLAY XPR 6380		810E			810F		
Channel Capacity	Up to 1000	Up to 32	Applicable MIL-STD	Methods	Procedures	Methods	s Procedures		
requency Band	800 and 900 MHz	800 and 900 MHz	Low Pressure	500.3		500.4			
Dimensions with Li-lon Battery	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)	High Temperature	501.3	I/A, II/A1	501.4	I/Hot, II/Ho		
Weight with IMPRES Li-Ion 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		
Power Supply	7.5 V nominal	7.5 V nominal	Temperature Shock	503.3	I/A, 1C3	503.4			
CC Description	ABZ99FT5011	ABZ99FT5011	Solar Radiation	505.3	I	505.4	1		
C Description	109AB-99FT5011	109AB-99FT5011	Rain	506.3	I, II	506.4	I, III		
Average battery life at 5/5/90 duty cycle with b	ansmitter in high power.	Humidity	507.3	1	507.4	-			
MPRES Li-lon 2150 mAh Battery	Analog: 13 hrs / Digital: 17 hrs	Analog: 13 hrs / Digital: 17 hrs	Salt Fog	509.3	I	509.4	1		
MPRES Li-Ion 1400 mAh Battery	Analog: 9 hrs / Digital: 12 hrs	Analog: 9 hrs / Digital: 12 hrs	Dust	510.3	I	510.4	1		
RECEIVER			Vibration	514.4	I/10, II/3	514.5	I/24		
requencies	800 MHz: 854-866 MHz and 869-870 MHz / 900 MHz: 935-941 MHz		Shock	516.4	I, IV	516.5	I, IV		
Channel Spacing	Hz / 900 MHz: 12.5 kHz	ENVIRONMENTAL SPECIFICATIONS							
requency Stability (-30° C, +60° C, +25° C)	+/- 0.	5 ppm	Operating Temperature	-30° C / +60° C					
Analog Sensitivity (12 dB SINAD) Typical	0.25	5 uV	Operating Temperature (w/ IMPRES Li-lon battery)	-10° C to +60° C					
Digital Sensitivity	5% BEF	: 0.3 uV	Storage Temperature	-40° C to +85° C					
Intermodulation (TIA603C)	70	dB	Thermal Shock	Per MIL-STD					
Adjacent Channel Selectivity (TIA603) - 1T	60 dB @ 12.5 kHz	/ 70 dB @ 25 kHz	Humidity	Per MIL-STD					
Adjacent Channel Selectivity (TIA603C) - 2T	45 dB @ 12.5 kHz / 70 dB @ 25 kHz		ESD	IEC-801-2KV					
Spurious Rejection (TIA603C)	70		Dust and Water Intrusion	IEC 60529 - IP54					
Rated Audio	.5		Packaging Test	MIL-STD 810D and E					
Audio Distortion @ Rated Audio									
Hum and Noise	3% (t -40 dB @ 12.5 kHz		Testing completed using portable radio with attached battery and antenna. FACTORY MUTUAL APPROVALS						
Audio Response		7 -45 UB @ 25 KH2			antifical by FM and		le in encodence with		
Conducted Spurious Emission (ETSI)		dBm	MOTOTRBO XPR 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						
	-37		properly equipped with a M	lotorola FM approved ba	ttery option. They	are also appro	ved for use in Class I.		
				1					
TRANSMITTER Frequencies	800 MHz: 809-821 MHz, 824-825 MHz, 82 900 MHz: 896-902 MHz and 935-941 MH		Division 2, Groups A, B, C, I				,		
		!	Division 2, Groups A, B, C, I	® Exia			,		
requencies Channel Spacing	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k	!	Division 2, Groups A, B, C, I				,		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C)	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k	: Hz / 900 MHz: 12.5 kHz 5 ppm	Division 2, Groups A, B, C, I	®Exia	RE SUPPORTE	D BY THE X			
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0.	: Hz / 900 MHz: 12.5 kHz 5 ppm W	Division 2, Groups A, B, C, I	®Exia	RE SUPPORTE	D BY THE X Trans	PR 6580 / XPR 638		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) .ow Power Output High Power Output	900 MHz: 896-902 MHz and 935-941 MH; 800 MHz: 12.5 and 25 k +/- 0. 1 2.5	: Hz / 900 MHz: 12.5 kHz 5 ppm W W	Division 2, Groups A, B, C, I CAPPROVED	B Exia G FREQUENCIES AI Receive		Trans	PR 6580 / XPR 638 smit		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) .ow Power Output High Power Output Modulation Limiting	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / +/- 5.0 kHz @ 25 kHz	ONLY THE FOLLOWIN	R Exia G FREQUENCIES AI Receive 851.0125	806.0	Trans	PR 6580 / XPR 638 smit 851.0125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) .ow Power Output High Power Output Modulation Limiting FM Hum and Noise	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz	: Hz / 900 MHz: 12.5 kHz 5 ppm W W V / +/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AN Receive 851.0125 851.5125	806.0	Trans 1125 5125	PR 6580 / XPR 638 smit 851.0125 851.5125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) .ow Power Output -digh Power Output -digh Power Output Modulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI)	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -36 dBm < 1 GHz	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / +/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -45 dB @ 25 kHz	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.5125 852.0125	806.0 806.1 807.0	Trans 1125 5125 1125	PR 6580 / XPR 638 smit 851.0125 851.5125 852.0125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Modulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -36 dBm < 1 GHz -60 dB @ 12.5 kHz	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / +/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -40 dBm > 1 GHz / -70 dB @ 25 kHz	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.5125 852.0125 852.5125	806.0 806.0 807.0 807.0	Trans 0125 0125 0125 0125	PR 6580 / XPR 638 smit 851.0125 851.5125 852.0125 852.5125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Modulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power Audio Response	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -36 dBm < 1 GHz -60 dB @ 12.5 kHz	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / +/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -45 dB @ 25 kHz / -70 dB @ 25 kHz i03C	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.5125 852.0125 852.5125 853.0125	806.0 806.0 807.0 807.0 807.0 808.0	Trans 1125 1125 1125 1125 1125	PR 6580 / XPR 638 smit 851.0125 851.5125 852.0125 852.5125 853.0125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Modulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power Audio Response Audio Distortion (per EIA)	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 2.5 	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / 4/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -30 dBm > 1 GHz / -70 dB @ 25 kHz :000C %	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.0125 852.0125 852.0125 852.0125 852.0125 853.0125 854.000 - 865.9875	806.0 806.2 807.0 807.0 808.0 809.000 -	Trans 0125 0 0125 0 0125 0 0125 0 0125 0 0125 0 0125 0 0125 0 0125 0 0125 0 0125 0	PR 6580 / XPR 638 smit 851.0125 851.5125 852.0125 852.5125 853.0125 854.000 - 865.9875		
requencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Modulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power Audio Response Audio Distortion (per EIA) FM Modulation	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -36 dBm < 1 GHz -60 dB @ 12.5 kHz TTLAC 3 12.5 kHz: 11K0F3E	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / +/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -30 dBm > 1 GHz / -70 dB @ 25 kHz i030C % / 25 kHz: 16K0F3E	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.0125 852.0125 852.0125 852.0125 853.0125 854.000 - 865.9875 866.0125	806.0 806.0 807.0 807.0 807.0 809.000 - 821.0	Trans 1125 5125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125	PR 6580 / XPR 638 smit 851.0125 851.5125 852.0125 852.5125 853.0125 854.000 - 865.9875 866.0125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Modulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power Audio Response Audio Distortion (per EIA) FM Modulation HFSK Digital Modulation	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -36 dBm <1 GHz -60 dB @ 12.5 kHz TIAc 3 12.5 kHz: 11K0F3E 12.5 kHz Data Only: 7K60FXD /	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / +/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -30 dBm > 1 GHz / -70 dB @ 25 kHz 030C % / 25 kHz: 16K0F3E 12.5 kHz Data & Voice: 7K60FXE	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.0125 852.0125 852.0125 852.0125 852.0125 853.0125 854.000 - 865.9875	806.0 806.1 807.0 807.1 808.0 809.000 - 821.0 821.0	Trans 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125	PR 6580 / XPR 638 smit 851.0125 851.5125 852.0125 852.5125 853.0125 854.000 - 865.9875		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Vodulation Limiting PM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power Audio Response Audio Distortion (per EIA) M Modulation FSK Digital Modulation	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -36 dBm <1 GHz -60 dB @ 12.5 kHz TIAc 3 12.5 kHz: 11K0F3E 12.5 kHz Data Only: 7K60FXD /	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / +/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -30 dBm > 1 GHz / -70 dB @ 25 kHz i030C % / 25 kHz: 16K0F3E	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.0125 852.0125 852.0125 852.0125 853.0125 854.000 - 865.9875 866.0125	806.0 806.0 807.0 807.0 807.0 809.000 - 821.0	Trans 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125	PR 6580 / XPR 638 smit 851.0125 851.5125 852.0125 852.5125 853.0125 854.000 - 865.9875 866.0125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Modulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power Audio Response Audio Distortion (per EIA) FM Modulation 4FSK Digital Modulation Digital Vocoder Type	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -36 dBm < 1 GHz, -60 dB @ 12.5 kHz 11.6 3 12.5 kHz: 11K0F3E 12.5 kHz Data Only: 7K60FXD / AMB	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / +/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -30 dBm > 1 GHz / -70 dB @ 25 kHz 030C % / 25 kHz: 16K0F3E 12.5 kHz Data & Voice: 7K60FXE	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.0125 852.0125 852.0125 853.0125 854.000 - 865.8875 866.0125 866.5125	806.0 806.1 807.0 807.1 808.0 809.000 - 821.0 821.0	Trans 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125	PR 6580 / XPR 638 smit 851.0125 851.5125 852.0125 852.5125 853.0125 854.000 - 865.9875 866.0125 866.5125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Hodulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power Audio Response Audio Distortion (per EIA) FM Modulation AFSK Digital Modulation Digital Vocoder Type Digital Protocol	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -36 dBm < 1 GHz, -60 dB @ 12.5 kHz 11.6 3 12.5 kHz: 11K0F3E 12.5 kHz Data Only: 7K60FXD / AMB	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / +/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -30 dBm > 1 GHz / -70 dB @ 25 kHz / -25 kHz 1 GKL 2 kHz Data & Voice: 7K80FXE + 2 ^{IM}	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.0125 852.0125 852.0125 854.000 - 865.9875 866.0125 866.5125 867.0125	806.0 806.1 807.0 807.1 808.0 809.000 - 821.0 821.0 821.0 822.0	Trans 1125	PR 6580 / XPR 638 smit 851.0125 851.5125 852.0125 852.5125 853.0125 854.000 - 865.987 866.0125 866.5125 867.0125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Modulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -40 dB @ 12.5 kHz -60 dB @ 12.5 kHz 12.5 kHz 11K0F3E 12.5 kHz 11K0F3E	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / +/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -30 dBm > 1 GHz / -70 dB @ 25 kHz 03C % / 25 kHz: 16K0F3E 12.5 kHz Data & Voice: 7K60FXE E +2 ^{7M} 361-1, -2, -3	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.0125 852.0125 852.0125 854.000 - 865.9875 866.0125 866.0125 866.7125 867.0125 867.5125	806.0 806.1 807.0 807.0 808.0 809.000 - 821.0 821.1 822.0 822.0 822.0	Trans 1125	PR 6580 / XPR 638 smit 851.0125 852.0125 852.0125 852.5125 854.000 - 865.9875 866.0125 866.5125 866.7.0125 867.0125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Modulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power Audio Response Audio Distortion (per EIA) FM Modulation 4FSK Digital Modulation Digital Vocoder Type Digital Protocol GPS	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -40 dB @ 12.5 kHz -60 dB @ 12.5 kHz 12.5 kHz 11K0F3E 12.5 kHz 11K0F3E	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / 4/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -30 dBm > 1 GHz / -70 dB @ 25 kHz 103C % / 25 kHz: 16K0F3E 12.5 kHz Data & Voice: 7K60FXE E +2 TM 361-1, -2, -3 ominal -130 dBm signal strength)	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.0125 852.0125 852.0125 854.000 - 865.9875 866.0125 866.0125 867.0125 867.0125 866.0125 868.0125	806.0 806.1 807.0 807.0 808.0 809.000 - 821.0 821.1 822.0 822.0 822.2 822.2 822.2	Trans 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125	PR 6580 / XPR 638 smit 851.0125 851.5125 852.0125 852.5125 854.000 - 865.9873 866.0125 866.5125 866.5125 867.0125 867.5125 868.0125		
Frequencies Channel Spacing Frequency Stability (-30° C, +60° C) Low Power Output High Power Output Modulation Limiting FM Hum and Noise Conducted / Rated Emission (ETSI) Adjacent Channel Power Audio Response Audio Distortion (per EIA) FM Modulation AfSK Digital Modulation Digital Vocoder Type Digital Protocol GPS Accuracy specs are for long-term tracking (95th	900 MHz: 896-902 MHz and 935-941 MHz 800 MHz: 12.5 and 25 k +/- 0. 1 2.5 +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -40 dB @ 12.5 kHz -36 dBm < 1 GHz, -60 dB @ 12.5 kHz 12.5 kHz: 11K0F3E 12.5 kHz: 11K0F3E 12.5 kHz Data Only: 7K60FXD / AMBI ETSI TS 102 percentile values > 5 satellites visible at a n < 2 m	: Hz / 900 MHz: 12.5 kHz 5 ppm W W / 4/- 5.0 kHz @ 25 kHz / -45 dB @ 25 kHz / -30 dBm > 1 GHz / -70 dB @ 25 kHz 103C % / 25 kHz: 16K0F3E 12.5 kHz Data & Voice: 7K60FXE E +2 TM 361-1, -2, -3 ominal -130 dBm signal strength)	Division 2, Groups A, B, C, I CAPPROVED	© Exia G FREQUENCIES AI Receive 851.0125 851.0125 852.0125 852.0125 852.0125 854.000 - 865.9875 866.0125 866.0125 867.0125 867.0125 869.000 - 870.000	806.0 806.1 807.1 807.1 808.0 809.000 - 821.1 822.1 822.1 822.2 822.2 822.3 823.1 824.000 -	Trans 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125 1125	PR 6580 / XPR 638 smit 851.0125 852.0125 852.0125 853.0125 854.000 - 865.9875 866.0125 866.5125 866.5125 867.0125 867.5125 868.0125 868.0125 869.000 - 870.000		

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

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