

## MOTOTRBO"

## DP3600/DP3601/DP3400/DP3401 Portable Radios



Portable radios available in Display and Non-Display, **GPS and Non-GPS models** 

Uses Time-Division Multiple-Access (TDMA) digital technology which doubles the number of users on a single licensed 12.5 kHz channel

**Integrates voice and data** to increase operational efficiency

Provides **clearer voice communications** throughout the coverage area

Up to **40 percent longer** battery life between recharges

Enhanced call management features include call alert, emergency, remote monitor, push-to-talk ID, radio check, private call, all call, radio disable Optional **IP Site Connect** provides
automatic roaming
from one coverage
area to another with no
manual intervention or
interruption

The optional **enhanced privacy** mode further protects the voice and data communications

**Emergency button** alerts supervisor or dispatcher in an emergency situation

DP3601 can transmit location coordinates with an emergency call Send short free-form and quick text messaging via programmable buttons

DP3600/DP3601 contacts list allows up to **256 contacts** 

Allows an **easy migration** from analog to digital with the ability to operate in both modes

Meets **IP57 submersibility** standard along with U.S. Military Standards 810 C, D, E, and F and Motorola standards for durability and reliability

Offered with an intrinsically safe option certified by Factory Mutual Approvals (FM) for use in hazardous classified areas. Can be used in locations where flammable gas, vapors or combustible dust may be present. Approved FM battery option is a 1400 mAh slim Lilon FM battery

Accessory connector meets IP57 submersibility specifications, incorporates RF, and USB and utilises the IMPRES™ Audio System for enhanced audio functionality

Utilises Motorola's state-of-the art **IMPRES** technology—providing **longer talk times and clearer audio delivery** 

## Accelerate performance.

The next-generation professional two-way radio communications solution is here, with more performance, productivity and value – thanks to digital technology that delivers increased capacity and spectrum efficiency, integrated data communications and enhanced voice communications.

MOTOTRBO offers you a private, standards-based, cost-effective solution that can be tailored to meet your unique coverage and feature needs. This versatile portfolio provides a complete system of portable radios, mobile radios, repeaters, accessories and data applications.

		DP3600 Display Non GPS Model DP3601 Display GPS Model		DP3400 Non-Display Non-GPS Model DP3401 Non-Display GPS Model			
	UHF		VHF		HF	VHF	
hannel Capacity		1000			3	2	
equency	403 - 470 MHz 450 - 5	512 MHz	136 - 174 MHz	403 - 470 MHz	450 - 512 MHz	136-174 MHz	
mension (HxWxT) w/ 1500 mAh Lilon Battery		131.5 x 63.5 x 35.2	mm		131.5 x 63.5	5 x 35.2 mm	
eight (with 1500 mAH Lilon Battery)		360g (12.7 oz)			360g (1	12.7 oz)	
ith 2200 mAh Lilon Battery)		361g (12.8 oz)			361g (1		
ith 1400 mAh Lilon FM Battery)		370g (13 oz)		370g (13 oz)			
ower Supply		7.5 VDC (nominal	1)	7.5 VDC (nominal)			
CC Description	AZ489FT4876 AZ489	FT4884	AZ489FT3815	AZ489FT4876	AZ489FT4884	AZ489FT3815	
erage battery life at 5/5/90 duty cycle with batter		nd transmitter in hig					
PRES 1500 mAh Lilon Battery	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Analog: 9 hrs	, 1		Analog	ı: 9 hrs	
•		Digital: 13 hrs		Digital: 13 hrs			
IPRES 2200 mAh Lilon Battery	Analog: 13.5 hrs			Analog: 13.5 hrs			
,	Digital: 19 hrs			Digital: 19 hrs			
IPRES FM 1400 mAh Battery		Analog: 8.5 hrs			Analog: 8.5 hrs		
······································		Digital: 12 hrs			Digital: 12 hrs		
ceiver							
quencies	403 - 470 MHz   450 - 5	512 MHz	136 - 174 MHz	403 - 470 MHz	450 - 512 MHz	136-174 MHz	
annel Spacing	100 0	12.5 kHz/ 25 kHz				z/ 25 kHz	
equency Stability		+/- 1.5 ppm (DP3600)			+/- 1.5 ppm (DP3400)		
0°C, +60°C, +25°C)		+/- 0.5 ppm (DP3601)			+/- 0.5 ppm (DP3401)		
nalog Sensitivity		0.35 uV (12 dB SIN		0.35 uV (12 dB SINAD)			
	0.35 dV (12 dB SINAD)			0.35 dV (12 dB 3INAD) 0.4 uV (20 dB SINAD)			
					0.4 uV (20 dB SINAD) 0.22 uV (typical)		
gital Sensitivity		0.22 uV (typical) 5% BER: 0.3 uV		5% BER: 0.3 uV			
termodulation		0 70 DETT. 0.0 dV	'		0 70 DE1	1. 0.0 4	
A603C		70 dB			70	4D	
				70 dB			
TSI		65 dB		65 dB 60 dB @ 12.5 kHz			
djacent Channel Selectivity		60 dB @ 12.5 kHz		70 dB @ 25 kHz			
- Delegation		70 dB @ 25 kHz	<u>′</u>				
purious Rejection		70 dB			70 dB 500 mW		
ated Audio		500 mW					
udio Distortion @ Rated Audio		3% (typical)	1	3% (typical)			
um and Noise		-40 dB @ 12.5 kHz		-40 dB @ 12.5 kHz			
F D	-45 dB @ 25 kHz			-45 dB @ 25 kHz			
audio Response		+ 1, -3 dB			+ 1, -3 dB		
onducted Spurious Emission		-57 dBm			-57	dBm	
ransmitter							
equencies	403 - 470 MHz 450 - 5	12 MU-	136 - 174 MHz	403 - 470 MHz	450 - 512 MHz	136-174 MHz	
nannel Spacing	403 - 470 1011 12 450 - 5	403 - 470 MHz		403 - 470 1011 12			
equency Stability		+/- 1.5 ppm (DP360		12.5 kHz/ 25 kHz +/- 1.5 ppm (DP3400)			
equency Stability							
0000 .0000 .0000		+/- 0.5 ppm (DP3601)		+/- 0.5 ppm (DP3401)			
ower Output	410/		414/		14/	414/	
wer Output w Power	1W		1W		W	1W	
wer Output w Power gh Power	1W 4W	105111 0 2251	5W		W	5W	
wer Output w Power gh Power		+/- 2.5 kHz @ 12.5 l	5W kHz		+/- 2.5 kHz	9 12.5 kHz	
wer Output w Power gh Power odulation Limiting		+/- 5.0 kHz @ 25 k	5W kHz :Hz		+/- 2.5 kHz +/- 5.0 kHz	5W @ 12.5 kHz z @ 25 kHz	
wer Output w Power gh Power odulation Limiting		+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kH	5W kHz :Hz		+/- 2.5 kHz +/- 5.0 kHz -40 dB @	5W @ 12.5 kHz z @ 25 kHz 12.5 kHz	
wer Output w Power gh Power odulation Limiting 1 Hum and Noise		+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kH -45 dB @ 25 kHz	5W kHz :Hz dz z		+/- 2.5 kHz +/- 5.0 kHz -40 dB @ -45 dB @	5W @ 12.5 kHz z @ 25 kHz 12.5 kHz @ 25 kHz	
wer Output w Power gh Power odulation Limiting II Hum and Noise	4W	+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GH:	5W kHz tHz tz z		+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm	5W @ 12.5 kHz z @ 25 kHz 12.5 kHz 2 0 25 kHz < 1 GHz	
wer Output w Power gh Power odulation Limiting  M Hum and Noise anducted / Radiated Emission	4W	+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz dBm > 1 GHz and	5W kHz :Hz tz z z < 4GHz		+/- 2.5 kHz +/- 5.0 kHz +/- 40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G	5W @ 12.5 kHz @ 26 kHz 12.5 kHz 2.5 kHz 2 5 kHz 4 1 GHz 4 1 GHz 4 Hz and < 4GHz	
wer Output w Power gh Power odulation Limiting  M Hum and Noise onducted / Radiated Emission	4W	+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz dBm > 1 GHz and -60 dB @ 12.5 kHz	5W kHz Hz iz z 4GHz		+/- 2.5 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G	5W @ 12.5 kHz 2 @ 25 kHz 12.5 kHz 2 5 kHz 2 5 kHz 2 1 GHz 4 1 GHz Hz and < 4GHz 12.5 kHz	
wer Output w Power gh Power odulation Limiting  // Hum and Noise onducted / Radiated Emission  djacent Channel Power	4W	+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz dBm > 1 GHz and - -60 dB @ 12.5 kHz -70 dB @ 25 kHz	5W kHz Hz iz z 4GHz		+/- 2.5 kHz +/- 5.0 kH: -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G -60 dB @	5W @ 12.5 kHz 2 @ 25 kHz 12.5 kHz 2 25 kHz 2 8 25 kHz 4 1 GHz Hz and < 4GHz 12.5 kHz 2 5 kHz	
30°C, +60°C, +25°C)  ower Output  ow Power  gigh Power  odulation Limiting  M Hum and Noise  onducted / Radiated Emission  djacent Channel Power  udio Response	4W	+/- 5.0 kHz @ 25 kH -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz dBm > 1 GHz and - -60 dB @ 12.5 kHz -70 dB @ 25 kHz +1, -3 dB	5W kHz Hz iz z 4GHz		+/- 2.5 kHz +/- 5.0 kHz -40 dB @ -45 dB « -36 dBm -30 dBm > 1 G -60 dB @ -70 dB « +1, -	5W @ 12.5 kHz z @ 25 kHz 12.5 kHz 2 12.5 kHz 2 12.5 kHz 2 15 kHz 2 1 GHz Hz and < 4GHz 12.5 kHz 2 25 kHz 3 dB	
wer Output w Power gh Power odulation Limiting  M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion	4W	+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GH. -60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3%	5W kHz :Hz dz z < 4GHz dz z		+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G -60 dB @ -70 dB @ +11,-	5W @ 12.5 kHz @ 12.5 kHz 12.5 kHz 12.5 kHz 2 12.5 kHz 2 1 GHz Hz and < 4GHz 12.5 kHz 2 25 kHz 3 dB	
wer Output w Power gh Power odulation Limiting  M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion	4W	+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kHz -45 dB @ 25 kHz -36 dBm < 1 GHz dBm > 1 GHz and -60 dB @ 12.5 kHz -70 dB @ 25 kHz +1, -3 dB 3%	5W kHz :Hz dz z z < 4GHz dz z		+/- 2.5 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G -60 dB @ -70 dB @ +11. 3:	5W @ 12.5 kHz @ 12.5 kHz 2 @ 25 kHz 12.5 kHz 9 25 kHz < 1 GHz Hz and < 4GHz 12.5 kHz 9 3 6 kHz 3 3 dB % : 11K0F3E	
ower Output ow Power gh Power odulation Limiting  If Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion If Modulation	-30	+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kHz -45 dB @ 25 kHz -36 dBm < 1 GHz and -1 -60 dB @ 12.5 kHz -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11K0F3 25 kHz: 16K0F3	5W kHz :Hz z z z < 4GHz dz z		+/- 2.5 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G -60 dB @ -70 dB @ +1, - 3: 12.5 kHz 25 kHz:	5W @ 12.5 kHz @ 25 kHz 12.5 kHz 2 25 kHz 2 5 kHz 2 15 kHz 2 15 kHz 2 15 kHz 2 15 kHz 3 16 kHz 3 18 3 18 3 18 11 1K0F3E 16 K0F3E	
ower Output ow Power gh Power odulation Limiting  If Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion If Modulation	-30 -30	+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz and - -60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11K0F3 25 kHz: 16K0F3E 5 kHz Data Only: 7k	5W kHz tHz dz z z < 4GHz dz z e< 6GFXD		+/- 2.5 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G -60 dB @ -70 dB @ +1, - 3: 12.5 kHz 25 kHz:	5W @ 12.5 kHz @ 12.5 kHz 2 @ 25 kHz 12.5 kHz 9 25 kHz < 1 GHz Hz and < 4GHz 12.5 kHz 9 25 kHz 3 3 dB % : 11K0F3E	
wer Output w Power gh Power gh Power godulation Limiting  # Hum and Noise  Inducted / Radiated Emission  Ijacent Channel Power  Idio Response Idio Distortion # Modulation	-30 -30	+/- 5.0 kHz @ 25 kHz -40 dB @ 12.5 kHz -45 dB @ 25 kHz -36 dBm < 1 GH36 dBm > 1 GHz and -6 -60 dB @ 12.5 kHz -70 dB @ 25 kHz +1, -3 dB -3% 12.5 kHz : 11K0F3 25 kHz: 16K0F3 5 kHz Data Only: 7k kHz Data & Voice: 7	5W kHz tHz dz z z < 4GHz dz z e< 6GFXD		+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G -60 dB @ -70 dB @ +11, - 3° 12.5 kHz 25 kHz Data &	5W @ 12.5 kHz z @ 25 kHz 12.5 kHz 2 12.5 kHz 2 15.5 kHz 2 1 GHz 4 1 GHz 12.5 kHz 2 2 5 kHz 3 dB % 11.1K0F3E 16K0F3E Only: 7K60FXD	
wer Output w Power gh Power godulation Limiting  // Hum and Noise  Inducted / Radiated Emission  Ijacent Channel Power  Idio Response Idio Distortion // Modulation  SK Digital Modulation  gital Vocoder Type	-30 -30	+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kHz -45 dB @ 25 kHz -36 dBm < 1 GHz 60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11K0F3 25 kHz: 16K0F35 kHz Data Only: 7k kHz Data & Voice: 7 AMBE+2 <sup>TM</sup>	5W kHz kHz dz z z < 4GHz dz z < 600FXD		+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB & -36 dBm -30 dBm > 1 G -60 dB @ -70 dB & +11, - 3' 12.5 kHz 25 kHz 12.5 kHz Data & 12.5 kHz Data & AMBI	5W @ 12.5 kHz @ 12.5 kHz 12.5 kHz 12.5 kHz 2 (@ 25 kHz 2 12.5 kHz 3 25 kHz 4 1 GHz Hz and < 4GHz 12.5 kHz 3 dB % : 11K0F3E 16K0F3E Only: 7K60FXD Voice: 7K60FXE E+2 <sup>™</sup>	
wer Output w Power gh Power gh Power doubtion Limiting  If Hum and Noise  Inducted / Radiated Emission  ijacent Channel Power  dio Response dio Distortion  I Modulation  SK Digital Modulation gital Vocoder Type	-30 -30	+/- 5.0 kHz @ 25 kHz -40 dB @ 12.5 kHz -45 dB @ 25 kHz -36 dBm < 1 GH36 dBm > 1 GHz and -6 -60 dB @ 12.5 kHz -70 dB @ 25 kHz +1, -3 dB -3% 12.5 kHz : 11K0F3 25 kHz: 16K0F3 5 kHz Data Only: 7k kHz Data & Voice: 7	5W kHz kHz dz z z < 4GHz dz z < 600FXD		+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G -60 dB @ -70 dB @ +11, - 3° 12.5 kHz 25 kHz Data &	5W @ 12.5 kHz @ 12.5 kHz 12.5 kHz 12.5 kHz 2 (@ 25 kHz 2 12.5 kHz 3 25 kHz 4 1 GHz Hz and < 4GHz 12.5 kHz 3 dB % : 11K0F3E 16K0F3E Only: 7K60FXD Voice: 7K60FXE E+2 <sup>™</sup>	
wer Output w Power gh Power gh Power sodulation Limiting  I Hum and Noise  Inducted / Radiated Emission giacent Channel Power  dio Response dio Distortion  I Modulation  SK Digital Modulation gital Vocoder Type gital Protocol	-30 -30	+/- 5.0 kHz @ 25 k -40 dB @ 12.5 kHz -45 dB @ 25 kHz -36 dBm < 1 GHz 60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11K0F3 25 kHz: 16K0F35 kHz Data Only: 7k kHz Data & Voice: 7 AMBE+2 <sup>TM</sup>	5W kHz kHz dz z z < 4GHz dz z < 600FXD	4	+/- 2.5 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G -60 dB @ -70 dB @ +11,- 3: 12.5 kHz 25 kHz: 12.5 kHz Data & AMBI ETSI-TS1	5W @ 12.5 kHz @ 12.5 kHz 12.5 kHz 12.5 kHz 2 (@ 25 kHz 2 12.5 kHz 3 25 kHz 4 1 GHz Hz and < 4GHz 12.5 kHz 3 dB % : 11K0F3E 16K0F3E Only: 7K60FXD Voice: 7K60FXE E+2 <sup>™</sup>	
wer Output wer Over gh Power gh Power odulation Limiting  If Hum and Noise onducted / Radiated Emission  If Jacent Channel Power Idio Response Idio Distortion If Modulation  SK Digital Modulation  gital Vocoder Type gital Protocol	-30 -30 12.5	+/- 5.0 kHz @ 25 kH -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz and - -60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11k0F3 25 kHz: 16k0F3 5 kHz Data Only: 7k kHz Data & Voice: 7 AMBE+2 <sup>TM</sup> ETSI-TS102 361-	5W kHz cHz dz z z < 4GHz dz z EEE 660FXD 7K60FXE		+/- 2.5 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G -60 dB @ -70 dB @ +11,- 3: 12.5 kHz 25 kHz: 12.5 kHz Data & AMBI ETSI-TS1	5W @ 12.5 kHz z @ 25 kHz 12.5 kHz 2 @ 25 kHz 2 1 GHz 4 1 GHz Hz and < 4GHz 12.5 kHz 3 dB % 6:111K0F3E 16K0F3E Only: 7K60FXD Voice: 7K60FXE E+2 <sup>TM</sup> 102 361-1	
ower Output ower Output ower Ower gh Power odulation Limiting  M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion	-30 -30 12.5	+/- 5.0 kHz @ 25 kH -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz and - -60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11k0F3 25 kHz: 16k0F3 5 kHz Data Only: 7k kHz Data & Voice: 7 AMBE+2 <sup>TM</sup> ETSI-TS102 361-	5W kHz cHz dz z z < 4GHz dz z EEE 660FXD 7K60FXE	4	+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm > 1 G -60 dB @ -70 dB @ +11, - 31 12.5 kHz 25 kHz: 12.5 kHz Data & AMBI ETSI-TS1	5W @ 12.5 kHz @ 12.5 kHz 12.5 kHz 12.5 kHz 2 (@ 25 kHz 2 12.5 kHz 3 25 kHz 4 1 GHz Hz and < 4GHz 12.5 kHz 3 dB % : 11K0F3E 16K0F3E Only: 7K60FXD Voice: 7K60FXE E+2 <sup>™</sup>	
wer Output wer Over gh Power gh Power odulation Limiting  If Hum and Noise onducted / Radiated Emission  If Jacent Channel Power Idio Response Idio Distortion If Modulation  SK Digital Modulation  gital Vocoder Type gital Protocol	-30 -30 12.5	+/- 5.0 kHz @ 25 kH -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz and - -60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11k0F3 25 kHz: 16k0F3 5 kHz Data Only: 7k kHz Data & Voice: 7 AMBE+2 <sup>TM</sup> ETSI-TS102 361-	5W kHz cHz dz z z < 4GHz dz z EEE 660FXD 7K60FXE	Environmental S	+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB « -36 dBm -30 dBm > 1 G -60 dB @ -70 dB « +11, - 3° 12.5 kHz 25 kHz: 12.5 kHz Data & AMBI ETSI-TSI	5W @ 12.5 kHz z @ 25 kHz 12.5 kHz 2 @ 25 kHz 2 12.5 kHz 2 1 GHz 4 1 GHz 12.5 kHz 2 2 5 kHz 3 dB 3 dB 36 111K0F3E 16K0F3E Only: 7K60FXD Voice: 7K60FXE E+2 <sup>TM</sup> 102 361-1	
wer Output w Power gh Power podulation Limiting  // Hum and Noise  Inducted / Radiated Emission  Ijacent Channel Power  Idio Response Idio Distortion // Modulation  SK Digital Modulation  gital Vocoder Type gital Protocol	-30 12.5 12.5 centile values > 5 satellites visible a	+/- 5.0 kHz @ 25 kH -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz and - -60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11k0F3 25 kHz: 16k0F3 5 kHz Data Only: 7k kHz Data & Voice: 7 AMBE+2 <sup>TM</sup> ETSI-TS102 361-	5W kHz cHz dz z z < 4GHz dz z EEE 660FXD 7K60FXE	Environmental S Operating Temper	+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB « -36 dBm -30 dBm > 1 G -60 dB @ -70 dB « +11, - 3° 12.5 kHz 25 kHz: 12.5 kHz Data & AMBI ETSI-TSI	5W @ 12.5 kHz z @ 25 kHz 12.5 kHz 2 (2 25 kHz 2 12.5 kHz 2 1 GHz Hz and < 4GHz 12.5 kHz 2 3 dB % 11K0F3E 16K0F3E Only: 7K60FXD Voice: 7K60FXE E+2 <sup>TM</sup> 02 361-1	
wer Output w Power gh Power gdp Power gdulation Limiting  # Hum and Noise  Inducted / Radiated Emission  Ijacent Channel Power  Idio Response Idio Distortion  # Modulation  SK Digital Modulation  SK Digital Modulation  gital Vocoder Type gital Protocol  SS  Curacy specs are for long-term tracking (95th per FF (Time To First Fix) Cold Start	-30  12.5  12.5  centile values > 5 satellites visible a	+/- 5.0 kHz @ 25 kH -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz and - -60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11k0F3 25 kHz: 16k0F3 5 kHz Data Only: 7k kHz Data & Voice: 7 AMBE+2 <sup>TM</sup> ETSI-TS102 361-	5W kHz cHz dz z z < 4GHz dz z EEE 660FXD 7K60FXE	Environmental S Operating Temper Storage Temperat	+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB « -36 dBm -30 dBm > 1 G -60 dB @ -70 dB « +11, - 3° 12.5 kHz 25 kHz: 12.5 kHz Data & AMBI ETSI-TSI	5W @ 12.5 kHz 2 @ 25 kHz 12.5 kHz 2 25 kHz 2 12.5 kHz 3 25 kHz < 1 GHz Hz and < 4GHz 12.5 kHz 3 3 dB % :11K0F3E 16K0F3E Only: 7K60FXD Voice: 7K60FXE E+2 <sup>TM</sup> 02 361-1 -30°C / +60°C -40°C / +85°C	
wer Output w Power gh	-30  12.5  12.5  centile values > 5 satellites visible a  < 1 minute  < 10 seconds	+/- 5.0 kHz @ 25 kH -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz and - -60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11k0F3 25 kHz: 16k0F3 5 kHz Data Only: 7k kHz Data & Voice: 7 AMBE+2 <sup>TM</sup> ETSI-TS102 361-	5W kHz cHz dz z z < 4GHz dz z EEE 660FXD 7K60FXE	Environmental S Operating Temperat Thermal Shock	+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB « -36 dBm -30 dBm > 1 G -60 dB @ -70 dB « +11, - 3° 12.5 kHz 25 kHz: 12.5 kHz Data & AMBI ETSI-TSI	5W @ 12.5 kHz 2 @ 25 kHz 12.5 kHz 2 12.5 kHz 3 25 kHz < 1 GHz Hz and < 4GHz 12.5 kHz 2 25 kHz 3 dB % : 11K0F3E 16K0F3E Only: 7K60FXD Voice: 7K60FXE E+2 <sup>TM</sup> 02 361-1  -30°C / +60°C -40°C / +85°C Per MILSTD	
wer Output w Power gh	-30  12.5  12.5  centile values > 5 satellites visible a  < 1 minute  < 10 seconds	+/- 5.0 kHz @ 25 kH -40 dB @ 12.5 kH -45 dB @ 25 kHz -36 dBm < 1 GHz and - -60 dB @ 12.5 kH -70 dB @ 25 kHz +1, -3 dB 3% 12.5 kHz : 11k0F3 25 kHz: 16k0F3 5 kHz Data Only: 7k kHz Data & Voice: 7 AMBE+2 <sup>TM</sup> ETSI-TS102 361-	5W kHz cHz dz z z < 4GHz dz z EEE 660FXD 7K60FXE	Environmental S Operating Tempers Storage Temperat Thermal Shock Humidity	+/- 2.5 kHz +/- 5.0 kHz +/- 5.0 kHz -40 dB @ -45 dB « -36 dBm -30 dBm > 1 G -60 dB @ -70 dB « +11, - 3° 12.5 kHz 25 kHz: 12.5 kHz Data & AMBI ETSI-TSI	5W @ 12.5 kHz z @ 25 kHz 12.5 kHz 2 (2.5 kHz 2 12.5 kHz 2 15.5 kHz 2 15.5 kHz 2 15.5 kHz 3 15.5 kHz	

 ${}^{*}\text{Specifications subject to change without notice. All specifications shown are typical.} Radio meets applicable regulatory requirements.$ 

Conforms to EC 1999/5/EC (R&TTE - Radio and Telecommunications Terminal Equipment) EN 300 086 EN 300 113



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