

MOTOTRBO[™]

XiR M8260/M8268/M8220/M8228 Mobile Radios

MOTOTRBO PROFESSIONAL DIGITAL TWO-WAY RADIO SYSTEM THE FUTURE OF TWO-WAY RADIO

Motorola is a company of firsts with a rich heritage of innovation. We continue to invent what's next—connecting people, delivering mobility and making technology personal. Versatile and powerful, MOTOTRBO combines the best in two-way radio functionality with digital technology, making it the ideal communication solution for your business. You get enhanced features, increased capacity, integrated data applications, exceptional voice quality and extended battery performance. This means more productive employees and lower operating costs for your business.

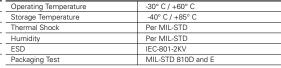


- Integrates Voice and Data into one device to increase your operational efficiency and support integrated applications including MOTOTRBO Text Messaging Services. Also features an integrated GPS module for use with third-party location-tracking applications.
- Uses Time-Division Multiple-Access (TDMA) digital technology to provide Twice The Calling Capacity (as compared to analog or FDMA radios) for the price of one frequency license. A second call doesn't require a second repeater, saving you equipment costs.
- In digital mode, provides Clearer
 Voice Communications throughout
 the coverage area, as compared to
 analog radios, rejecting static and
 noise.
- Features the Transmit Interrupt
 Suite* —voice interrupt, remote
 voice dekey, emergency voice
 interrupt —to help prioritize critical
 communication exactly when
 needed
- The IP Site Connect* digital solution uses the Internet to extend coverage of your MOTOTRBO communication system to users anywhere in the world for dramatically improved customer service and increased productivity.
- Capacity Plus* is a scalable, singlesite digital trunking solution that can expand the capacity of your MOTOTRBO communication to over a thousand radio users without adding new frequencies.
- Motorola's Application Developer Program enables the development of customized data applications that adapt MOTOTRBO radios to meet the unique needs of your business.

$\mathbf{MOTOTRBO^{\mathsf{TM}}}$ **Mobile Radio**

		XIR M8260 Display Non GPS Model XIR M8268 Display GPS Model		XIR M8220 Non-Display Non-GPS Model XIR M8228 Non-Display GPS Model			
	UI	4F	VHF	U	HF	VHF	
hannel Capacity		1000			3		
requencies	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz	
imension (HxWxT)		51 x 175 x 2			51 x 175 x		
/eight		1.8 kg (4.	(0 lbs)		1.8 kg (4.0 lbs)	
urrent Drain (High Power) tandby		0.81 A			0.01	\ many	
x @ Rated Audio		0.61 A I		0.81 A max 2 A max			
x @ Rated Audio		14.5 A max		14.5 A max			
ower Supply		13.8 V		13.8 VDC			
CC Description	1-25W : ABZ99FT4081	1-40W: ABZ99FT4083	1-25W : ABZ99FT3083	1-25W : ABZ99FT4081	1-40W: ABZ99FT4083	1-25 W : ABZ99FT308	
	25-40W : ABZ99FT4080		25-45W : ABZ99FT3082	25-40 W : ABZ99FT4080		5-45 W :	
BZ99FT3082							
Receiver					Г		
requencies	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz	
hannel Spacing		12.5 kHz/:			12.5 kHz/		
equency Stability		+/- 1.5 ppm (XiR M8260) +/- 1.5 ppm (XiR M8220)					
30° C, +60° C, +25° C)		+/- 0.5 ppm (XiR M8268)			+/- 0.5 ppm (XiR M8228)		
nalog Sensitivity	0.3 uV (12 dB SINAD) 0.4 uV (20 dB SINAD)			0.3 uV (12 dB SINAD) 0.4 uV (20 dB SINAD)			
	0.4 uV (20 dB SINAD) 0.22 uV (typical)			0.22 uV (typical)			
igital Sensitivity		5% BER: 0.3 uV		5% BER: 0.3 uV			
ntermodulation		3 70 BEIL			570 BEIL		
IA603C	75 (dB	78 dB	75	dB	78 dB	
TS	60		60 dB	60		60 dB	
djacent Channel Selectivity		60 dB @ 12.5 kHz		60 dB @ 12.5 kHz			
ΓΙΑ603, ETS)		70 dB @ 2	25 kHz		70 dB @ 25 kHz		
purious Rejection							
IA603C	75 (80 dB 70 dB		75 dB 80		
TS	70 (70 dB				70 dB	
ated Audio	3 W (Internal)			3 W (Internal)			
	7.5 W (External - 8 ohms)			7.5 W (External - 8 ohms) 13 W (External - 4 ohms)			
udio Distortion @ Rated Audio		13 W (External - 4 ohms)			3% (typical)		
um and Noise		3% (typical) -40 dB @ 12.5 kHz			-40 dB @ 12.5 kHz		
ium and Noise	-45 dB @ 25 kHz			-45 dB @ 25 kHz			
udio Response		+ 1, -3 dB			+ 1, -3 dB		
Conducted Spurious Emission		-57 dBm			-57 dBm		
	•						
ransmitter							
requencies	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz	
ower Output							
ow Power		1-40 W	1-25 W	1-25 W	1-40 W	1-25 W	
	1-25 W	1-40 VV					
	1-25 VV 25-40 W		25-45 W	25-40 W	10.5111	25-45 W	
hannel Spacing		12.5 kHz/	25-45 W 25 kHz	25-40 W	12.5 kHz/	25-45 W 25 kHz	
hannel Spacing requency Stability		12.5 kHz/: +/- 1.5 ppm (X	25-45 W 25 kHz (IR M8260)	25-40 W	+/- 1.5 ppm (25-45 W 25 kHz XiR M8220)	
requency Stability 30° C, +60° C, +25° C)		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X	25-45 W 25 kHz (IR M8260) (IR M8268)	25-40 W	+/- 1.5 ppm (: +/- 0.5 ppm (:	25-45 W 25 kHz XIR M8220) XIR M8228)	
requency Stability 30° C, +60° C, +25° C)		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @	25-45 W 25 kHz GR M8260) GR M8268) 12.5 kHz	25-40 W	+/- 1.5 ppm (; +/- 0.5 ppm (; +/- 2.5 kHz (;	25-45 W 25 kHz XiR M8220) XiR M8228) @ 12.5 kHz	
hannel Spacing requency Stability 30° C, +60° C, +25° C) Iodulation Limiting		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz (25-45 W 25 kHz IR M8260) IR M8268) 112.5 kHz	25-40 W	+/- 1.5 ppm (; +/- 0.5 ppm (; +/- 2.5 kHz @ +/- 5.0 kHz	25-45 W 25 kHz XiR M8220) XiR M8228) 20 12.5 kHz 20 25 kHz	
hannel Spacing requency Stability -30° C, +60° C, +25° C) Adulation Limiting		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1	25-45 W 25 kHz IR M8260) IR M8268) 112.5 kHz 2 25 kHz	25-40 W	+/- 1.5 ppm (: +/- 0.5 ppm (: +/- 2.5 kHz @ +/- 5.0 kHz -40 dB @	25-45 W '25 kHz XIR M8220) 20 12.5 kHz 20 25 kHz 12.5 kHz	
hannel Spacing requency Stability -30° C, +60° C, +25° C) fodulation Limiting M Hum and Noise		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz (25-45 W 25 kHz (iR M8260) (iR M8268) 12.5 kHz 2 25 kHz 25 kHz	25-40 W	+/- 1.5 ppm (; +/- 0.5 ppm (; +/- 2.5 kHz @ +/- 5.0 kHz	25-45 W 25 kHz XIR M8220) XIR M8228) 9 12.5 kHz @ 25 kHz 12.5 kHz 25 kHz	
ligh Power channel Spacing requency Stability -30° C, +60° C, +25° C) Andulation Limiting M Hum and Noise conducted / Radiated Emission		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ 2	25-45 W 25 kHz IFN M8260) IFN M8268) 12.5 kHz 25 kHz 25 kHz 25 kHz 1 GHz	25-40 W	+/- 1.5 ppm (; +/- 0.5 ppm (; +/- 2.5 kHz (; +/- 5.0 kHz -40 dB @; -45 dB @;	25-45 W 25 kHz XiR M8220) XiR M8228) 10.25 kHz 25 kHz 25 kHz 21 GHz	
hannel Spacing requency Stability -30° C, +60° C, +25° C) //odulation Limiting M Hum and Noise		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz 0 -40 dB @ 1 -45 dB @ 2 -36 dBm <	25-45 W 25 kHz IR M8260) IR M8268) 112.5 kHz 2 25 kHz 2.5 kHz 2 1 GHz 1 GHz	25-40 W	+/- 1.5 ppm (; +/- 0.5 ppm (; +/- 2.5 kHz (; +/- 5.0 kHz -40 dB @ ; -45 dB @ -36 dBm	25-45 W 25 kHz XIR M8220) XIR M8228 2 12.5 kHz 2 25 kHz 2 12.5 kHz 2 14 CHz 3 12.5 kHz	
hannel Spacing requency Stability -30° C, +60° C, +25° C) Addulation Limiting M Hum and Noise		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ 2 -36 dBm >	25-45 W 26 kHz If M8260) If M8268) 112.5 kHz 2 5 kHz 2 5 kHz 2 1 GHz 1 GHz 2 5 kHz	25-40 W	+/- 1.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz (+/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm	25-45 W 25 kHz XiR M8220) 20 12.5 kHz 20 25 kHz 12.5 kHz 25 kHz < 1 GHz 1 GHz 1 GHz 1 GHz	
hannel Spacing requency Stability -30° C, +60° C, +25° C) flodulation Limiting M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ : -30 dBm > -60 dB @ 1 -70 dB @ :	25-45 W 25 kHz ifR M8260) ifR M8268) 2 12.5 kHz 2 25 kHz 2 1 GHz 1 GHz 2 5 kHz 2 5 kHz 4 GHz 4 GHz 4 GHZ 5 KHZ	25-40 W	+/- 1.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz ⁶ +/- 5.0 kHz -40 dB [@] -36 dBm -30 dB [@] -70 dB [@] -71 dB	25-45 W 25 kHz XiR M8220) 20 12.5 kHz 20 25 kHz 12.5 kHz 15 kHz 16 kHz 17 kHz 18 kHz 19 kHz 19 kHz 19 kHz 19 kHz 19 kHz 19 kHz 25 kHz 25 kHz 25 kHz 25 kHz 25 kHz	
hannel Spacing requency Stability -30° C, +60° C, +25° C) fodulation Limiting M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ 2 -30 dBm > -60 dB @ 1 -70 dB @ 3 -11, 33	25-45 W 25 kHz GIR M8260) GIR M8268) 112.5 kHz 20 25 kHz 2.5 kHz 21 GHz 1 GHz 2.5 kHz 4 GHz 4 G	25-40 W	+/- 1.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz (+/- 5.0 kHz -40 dB @ -45 dB @ -30 dBm : -30 dBm : -60 dB @ -70 dB @ +11,-5	25-45 W 25 kHz XIR M8220) XIR M8228) 2 12.5 kHz 2 25 kHz 2 16 Hz < 1 GHz > 1 GHz 12.5 kHz 4 GHz 5 kHz 6 GHz	
hannel Spacing requency Stability 30° C, +60° C, +25° C) flodulation Limiting M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ 2 -30 dBm > -60 dB @ 1 -70 dB @ 2 +1, -3 3%	25-45 W 26 kHz IR M8260) IR M8268) 112.5 kHz 2 25 kHz 2 15 kHz 2 5 kHz 2 5 kHz 2 5 kHz 3 6 Hz 4 GHz 4 GHz 5 KHZ 6 HZ 6 HZ 6 HZ 7 GHZ 7 GHZ 8 HZ 8	25-40 W	+/- 1.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz (+/- 5.0 kHz -40 dB @ -45 dB @ -30 dBm -30 dBm -70 dB @ -70 dB @ -11, -3	25-45 W 25 kHz XiR M8220) XiR M8228) 2 12.5 kHz 2 25 kHz 25 kHz 21 GHz 11 GHz 12.5 kHz 26 kHz 11 GHz 11 GHZ	
hannel Spacing requency Stability -30° C, +60° C, +25° C) Modulation Limiting M Hum and Noise conducted / Radiated Emission djacent Channel Power dudio Response udio Distortion M Modulation		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ : -30 dBm < -30 dBm > -60 dB @ 1 -70 dB @ : +1, -3 3% 12.5 kHz : 16	25-45 W 25 kHz IR M8260) IR M8260) 112.5 kHz 2 25 kHz 2.5 kHz 25 kHz 1 GHz 1 GHz 2.5 kHz 1 GHz 1 GHz 1 GHz 1 GHS 1 KOF3E	25-40 W	+/- 1.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz 6 +/- 5.0 kHz - -40 dB @ -45 dB @ -36 dBm -30 dBm -70 dB @ -70 dB @ -11,-3 39 12.5 kHz : 25 kHz : 1	25-45 W '25 kHz XiR M8220) 20 12.5 kHz 20 25 kHz 212.5 kHz 25 kHz 21 GHz 25 kHz 25 kHz 26 kHz 26 kHz 31 GHz 31 GHz 31 GHz 31 GHZ 32 GHZ 33 GHZ 34 GHZ 35 KHZ 46 GHZ	
hannel Spacing requency Stability .30° C, +60° C, +25° C) lodulation Limiting M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion M Modulation		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @: -36 dBm < -30 dBm > -60 dB @ 1 -70 dB @: +1, -3 3% 12.5 kHz : 1 25 kHz : 1 12.5 kHz Data Oi	25-45 W 25 kHz IR M8260) IR M8268) 112.5 kHz 2 25 kHz 2.5 kHz 2.5 kHz 2.5 kHz 2.5 kHz 4 GHz 1 GHz	25-40 W	+/- 1.5 ppm (+/- 0.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz (+/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm : -60 dB @ -70 dB @ -11,-3 39 12.5 kHz : 25 kHz : 12.5 kHz Data C	25-45 W 25 kHz XIR M8220) 20 12.5 kHz 20 25 kHz 212.5 kHz 225 kHz 215 kHz 216 kHz 227 kHz 238 kHz 249 kHz 25 kHz 25 kHz 26 kHz 27 kHz 28 kHz 29 kHz 29 kHz 20 kHz 20 kHz 20 kHz 20 kHz 21 kHz 22 kHz 23 kHz 24 kHz 25 kHz 25 kHz 26 kHz 27 kHz 28 kHz 29 kHz 29 kHz 20 kHz	
hannel Spacing requency Stability 30° C, +60° C, +25° C) lodulation Limiting VI Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion VI Modulation SK Digital Modulation		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ -40 dB @ 1 -45 dB @ 2 -30 dBm > -60 dB @ 1 -70 dB @ 2 +1,-3 3% 12.5 kHz : 16 12.5 kHz 2 Data & V	25-45 W 25 kHz 26 iR M8260) GiR M8268) 112.5 kHz 26 25 kHz 2.5 kHz 27 kHz 28 kHz 29 kHz 20 kHz 21 GHz 21 GHz 25 kHz 26 kHz 26 kHz 27 kHz 28 kHz 29 kHz 20 kHz 21 GHz 21 GHz 22 kHz 25 kHz 26 kHz 26 kHz 27 kHz 28 kHz 28 kHz 28 kHz 29 kHz 20 kH	25-40 W	+/- 1.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz (+/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm -70 dB @ -71 dB -71	25-45 W 25 kHz XIR M8220) XIR M8228) 2 12.5 kHz 2 25 kHz 2 15 kHz 2 16 Hz > 1 GHz > 1 GHz 5 kHz 25 kHz 11.5 kHz 25 kHz 10 Hz 11.5 kHz 25 kHz 10 Hz 10 Hz 11 K0F3E 60 H3 K0F3E Dnly: 7K60FXD	
nannel Spacing requency Stability 30° C, +60° C, +25° C) lodulation Limiting VI Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion VI Modulation SK Digital Modulation		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ : -30 dBm > -60 dB @ 1 -70 dB @ : +1, -3 3% 12.5 kHz : 16 12.5 kHz Data Or 12.5 kHz Data & V AMBE+	25-45 W 25 kHz GIR M8260) GIR M8268) 112.5 kHz 20 25 kHz 2.5 kHz 2.5 kHz 2.5 kHz 2.6 kHz 2.6 kHz 2.7 kHz 2.8 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.1 GHz 2.1 GHz 2.2 kHz 2.5 kHz 2.6 kHz 2.7 kHz 2.8 kHz 2.8 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.1 GHz 2.1 GHz 2.2 kHz 2.3 kHz 2.4 kHz 2.5 kHz 2.5 kHz 2.6 kHz 2.7 kHz 2.8 kHz 2.8 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.1 kHz 2.1 kHz 2.2 kHz 2.3 kHz 2.4 kHz 2.5 kHz 2.5 kHz 2.5 kHz 2.6 kHz 2.7 k	25-40 W	+/- 1.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz (+/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm : -60 dB @ -70 dB @ +11,-3 39 12.5 kHz : 12.5 kHz Data C 12.5 kHz Data C	25-45 W 25 kHz XiR M8220) XiR M8228) 20 12.5 kHz 20 25 kHz 25 kHz 21 GHz 1 GHz 1 GHz 1 GHz 1 GHS 1 GHS 1 HX0F3E 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
hannel Spacing requency Stability 30° C, +60° C, +25° C) fodulation Limiting M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion M Modulation FSK Digital Modulation igital Vocoder Type		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ -40 dB @ 1 -45 dB @ 2 -30 dBm > -60 dB @ 1 -70 dB @ 2 +1,-3 3% 12.5 kHz : 16 12.5 kHz 2 Data & V	25-45 W 25 kHz GIR M8260) GIR M8268) 112.5 kHz 20 25 kHz 2.5 kHz 2.5 kHz 2.5 kHz 2.6 kHz 2.6 kHz 2.7 kHz 2.8 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.1 GHz 2.1 GHz 2.2 kHz 2.5 kHz 2.6 kHz 2.7 kHz 2.8 kHz 2.8 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.1 GHz 2.1 GHz 2.2 kHz 2.3 kHz 2.4 kHz 2.5 kHz 2.5 kHz 2.6 kHz 2.7 kHz 2.8 kHz 2.8 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.1 kHz 2.1 kHz 2.2 kHz 2.3 kHz 2.4 kHz 2.5 kHz 2.5 kHz 2.5 kHz 2.6 kHz 2.7 k	25-40 W	+/- 1.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz (+/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm -70 dB @ -71 dB -71	25-45 W 25 kHz XiR M8220) XiR M8228) 20 12.5 kHz 20 25 kHz 25 kHz 21 GHz 11 GHz 12.5 kHz 26 kHz 11 GHz 11 GHZ 11 GHZ 11 GHZ 11 GHZ 12 GHB 11 K0F3E 660F3E 10 Jly: 7K60FXD Voice: 7K60FXE	
hannel Spacing requency Stability 30° C, +60° C, +25° C) lodulation Limiting VI Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion VI Modulation SK Digital Modulation igital Vocoder Type igital Protocol		12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ : -30 dBm > -60 dB @ 1 -70 dB @ : +1, -3 3% 12.5 kHz : 16 12.5 kHz Data Or 12.5 kHz Data & V AMBE+	25-45 W 25 kHz GIR M8260) GIR M8268) 112.5 kHz 20 25 kHz 2.5 kHz 2.5 kHz 2.5 kHz 2.6 kHz 2.6 kHz 2.7 kHz 2.8 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.1 GHz 2.1 GHz 2.2 kHz 2.5 kHz 2.6 kHz 2.7 kHz 2.8 kHz 2.8 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.1 GHz 2.1 GHz 2.2 kHz 2.3 kHz 2.4 kHz 2.5 kHz 2.5 kHz 2.6 kHz 2.7 kHz 2.8 kHz 2.8 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.9 kHz 2.1 kHz 2.1 kHz 2.2 kHz 2.3 kHz 2.4 kHz 2.5 kHz 2.5 kHz 2.5 kHz 2.6 kHz 2.7 k		+/- 1.5 ppm (+/- 0.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz 6 +/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm: -60 dB @ -70 dB @ +11,-3 39 12.5 kHz 1 12.5 kHz Data & AMBE ETSI-TS1(25-45 W 25 kHz XiR M8220) XiR M8228) 2 12.5 kHz 2 25 kHz 2 15 kHz 2 16 Hz 2 16 Hz 2 16 Hz 1 16 Hz 1 16 Hz 1 16 HS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
hannel Spacing requency Stability 30° C, +60° C, +25° C) Idodulation Limiting M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion M Modulation FSK Digital Modulation igital Vocoder Type igital Protocol	25-40 W	12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ 2 -36 dBm > -60 dB @ 1 -70 dB @ 1 +1,-3 3% 12.5 kHz : 16 12.5 kHz Data & V AMBE+ ETSI-TS10:	25-45 W 25 kHz 26 if M8260) GiR M8268) 112.5 kHz 26 25 kHz 2.5 kHz 27 kHz 28 kHz 29 kHz 20 kHz 20 kHz 20 kHz 20 kHz 20 kHz 21 GHz 21 GHz 225 kHz 25 kHz 26 kHz 26 kHz 27 kHz 28 kHz 28 kHz 28 kHz 29 kHz 20 kHz 20 kHz 21 kHz 22 kHz 22 kHz 23 kHz 24 kHz 25 kHz 25 kHz 26 kHz 26 kHz 26 kHz 27 kK0F3E 36 kOF3E 36 kO	Environmental Specific	+/- 1.5 ppm (+/- 0.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz (+/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm -60 dB @ -70 dB @ +11,-3 39 12.5 kHz : 1 12.5 kHz Data & AMBE ETSI-TS10	25-45 W 25 kHz XiR M8220) XiR M8228) 20 12.5 kHz 20 25 kHz 21.5 kHz 25 kHz 21 GHz 22 kHz 25 kHz 25 kHz 26 kHz 27 kHz 28 kHz 29 kHz 29 kHz 20 kHz 20 kHz 20 kHz 20 kHz 21 kHz 22 kHz 23 kHz 25 kHz 25 kHz 26 kHz 27 kHz 28 kHz 29 kHz 20 kHz 21 kHz 22 kHz 23 kHz 24 kHz 25 kHz 25 kHz 26 kHz 27 kHz 28 kHz 29 kHz 20 kHz 21 kHz 22 kHz 23 kHz 24 kHz 25 kHz 25 kHz 26 kHz 27 kHz 28 kHz 29 kHz 20 kHz 21 kHz 22 kHz 23 kHz 24 kHz 25 kHz 25 kHz 26 kHz 26 kHz 27 kHz 27 kHz 28 kHz 28 kHz 28 kHz 28 kHz 29 kHz 20 kHz 20 kHz 20 kHz 20 kHz 20 kHz 21 kHz 22 kHz 23 kHz 24 kHz 25 kHz 25 kHz 26 kHz 26 kHz 27 kHz 28 kHz 28 kHz 28 kHz 28 kHz 29 kHz 20	
hannel Spacing requency Stability -30° C, +60° C, +25° C) flodulation Limiting M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion M Modulation FSK Digital Modulation igital Vocoder Type igital Protocol IPS ccuracy specs are for long-term tracking	y (95th percentile values > 5 satel	12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ 2 -36 dBm > -60 dB @ 1 -70 dB @ 1 +1,-3 3% 12.5 kHz : 16 12.5 kHz Data & V AMBE+ ETSI-TS10:	25-45 W 25 kHz 26 if M8260) GiR M8268) 112.5 kHz 26 25 kHz 2.5 kHz 27 kHz 28 kHz 29 kHz 20 kHz 20 kHz 20 kHz 20 kHz 20 kHz 21 GHz 21 GHz 225 kHz 25 kHz 26 kHz 26 kHz 27 kHz 28 kHz 28 kHz 28 kHz 29 kHz 20 kHz 20 kHz 21 kHz 22 kHz 22 kHz 23 kHz 24 kHz 25 kHz 25 kHz 26 kHz 26 kHz 26 kHz 27 kK0F3E 36 kOF3E 36 kO	Environmental Specific Operating Temperature	+/- 1.5 ppm (+/- 0.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz (+/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm -60 dB @ -70 dB @ +11,-3 -39 12.5 kHz 12 12.5 kHz Data 6 12.5 kHz Data 6 12.5 kHz Data 8 AMBE ETSI-TS1(cations	25-45 W 25 kHz XiR M8220) XiR M8228) 2 12.5 kHz 2 25 kHz 2 15 kHz 2 16 Hz > 1 GHz 12.5 kHz 2 kHz 1 GHz 11.5 kHz 2 kHz 3 kHz 4 k	
hannel Spacing requency Stability 30° C, +60° C, +25° C) Idodulation Limiting M Hum and Noise onducted / Radiated Emission djacent Channel Power udio Response udio Distortion M Modulation FSK Digital Modulation igital Vocoder Type igital Protocol	25-40 W	12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ 2 -36 dBm > -60 dB @ 1 -70 dB @ 1 +1,-3 3% 12.5 kHz : 16 12.5 kHz Data & V AMBE+ ETSI-TS10:	25-45 W 25 kHz 26 if M8260) GiR M8268) 112.5 kHz 26 25 kHz 2.5 kHz 27 kHz 28 kHz 29 kHz 20 kHz 20 kHz 20 kHz 20 kHz 20 kHz 21 GHz 21 GHz 225 kHz 25 kHz 26 kHz 26 kHz 27 kHz 28 kHz 28 kHz 28 kHz 29 kHz 20 kHz 20 kHz 21 kHz 22 kHz 22 kHz 23 kHz 24 kHz 25 kHz 25 kHz 26 kHz 26 kHz 26 kHz 27 kK0F3E 36 kOF3E 36 kO	Environmental Specific	+/- 1.5 ppm (+/- 0.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz (+/- 5.0 kHz -40 dB @ -45 dB @ -36 dBm -30 dBm -60 dB @ -70 dB @ +11,-3 -39 12.5 kHz 12 12.5 kHz Data 6 12.5 kHz Data 6 12.5 kHz Data 8 AMBE ETSI-TS1(cations	25-45 W 25 kHz XiR M8220) XiR M8228) 2 12.5 kHz 2 25 kHz 25 kHz 21.5 kHz 25 kHz 1 6Hz 11.5 kHz 26 kHz 27 kHz 28 kHz 28 kHz 29 kHz 20 kHz 20 kHz 20 kHz 21 kHz 22 kHz 23 kHz 24 kHz 25 kHz 26 kHz 27 kHz 28 kHz 28 kHz 28 kHz 29 kHz 20 kHz 21 kHz 22 kHz 24 kHz 25 kHz 26 kHz 27 kHz 28 kHz 28 kHz 28 kHz 28 kHz 28 kHz 29 kHz 20 kHz 46 kHz 46 kHz 47 k60 kHz 27 k60 kHz 28 kHz 28 kHz 48 kHz	
nannel Spacing equency Stability 30° C, +60° C, +25° C) odulation Limiting M Hum and Noise Onducted / Radiated Emission Diagonate Channel Power Judio Response Judio Distortion M Modulation SK Digital Modulation gital Vocoder Type gital Protocol PS Excuracy specs are for long-term tracking Joseph Space Start (Time To First Fix) Cold Start	g (95th percentile values > 5 satel	12.5 kHz/ +/- 1.5 ppm (X +/- 0.5 ppm (X +/- 2.5 kHz @ +/- 5.0 kHz @ -40 dB @ 1 -45 dB @ 2 -36 dBm > -60 dB @ 1 -70 dB @ 1 +1,-3 3% 12.5 kHz : 16 12.5 kHz Data & V AMBE+ ETSI-TS10:	25-45 W 25 kHz 26 if M8260) GiR M8268) 112.5 kHz 26 25 kHz 2.5 kHz 27 kHz 28 kHz 29 kHz 20 kHz 20 kHz 20 kHz 20 kHz 20 kHz 21 GHz 21 GHz 225 kHz 25 kHz 26 kHz 26 kHz 27 kHz 28 kHz 28 kHz 28 kHz 29 kHz 20 kHz 20 kHz 21 kHz 22 kHz 22 kHz 23 kHz 24 kHz 25 kHz 25 kHz 26 kHz 26 kHz 26 kHz 27 kK0F3E 36 kOF3E 36 kO	Environmental Specific Operating Temperature Storage Temperature	+/- 1.5 ppm (+/- 0.5 ppm (+/- 0.5 ppm (+/- 2.5 kHz o +/- 2.5 kHz o +/- 3.0 kHz -40 dB @ -45 dB @ -36 dBm30 dBm : -60 dB @ -70 dB @ +1, -3 39 12.5 kHz Data C 12.5 kHz Data C 12.5 kHz Data & AMBE ETSI-TS10	25-45 W '25 kHz XiR M8220) XiR M8228) 20 12.5 kHz 20 25 kHz 12.5 kHz 25 kHz 16 Hz 11.5 kHz 26 kHz 11.5 kHz 27 kHz 28 kHz 29 kHz 10 kHz 10 kHz 10 kHz 11 kNF3E 6 kNF3E 11 kNF3E 6 kNF3E 11 kNF3E 12 kHz 13 kHz 14 kHz 15 kHz 16 kHz 17 kF60FXD 17 kF60FXD 17 kF60FXD 17 kF60FXE	

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





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