

Digital / Analog Combined Transceiver

SGS10-D21

Main Functions

- Digital +analogue digital radio
- GPS DMR Radio
- IP Connectivity
- Digital Encryption
- Text Message
- Selective Call & Group Call



DMR
DIGITAL MOBILE RADIO ASSOCIATION

STARK
signals

Specification

General	
Frequency Range	VHF:136-174MHZ UHF:400-480MHZ / 350-390MHZ
Channel	1024 Channels
Channel spacing	12.5KHZ
Operating voltage	7.4V
Battery Type	Li-ion
Operating temperature	-30°C-+60°C
Store temperature	-40°C-+85°C
Antenna impedance	500
Audio output power	≤1000mW@160
Battery capacity	3000Mah standard Li-ion battery
Dimension (H*W*WD)	124*45*35mm (without antenna)
Weight	194g
Transmitter	
Output power	4/5 Watt
Frequency stability	+/-1.0ppm
Adjacent channel Power	≤60bB
Free time slot power	TDMA: ≤-57bBm
Hum and Noise	-40bB @ 12.5KHZ
Spurious Radiation	Antenna: 9KHz-1GHz ≤-36bBm / 1GHz-12.75GHz ≤-30dBm
FM modulation mode	12.5KHz: 11KOF3E
4FSK digital mode	12.5KHz (data only): 7K60FXD 12.5KHz (data+voice): 7K60FXE
Modulation Maximum Deviation	2.5KHZ@12.5KHZ
Nonactive slot power	-57dBm
Digital protocol	ETSI TS 102 351-1,-2,-3
Vocoder type	AMBE+2TM
Audio response	+1dB-3dB
Modulation BER (Bit error rate)	≤5%
Receiver	
Analog sensibility	0.35uV/-116dBm(20dB SINAD) / 0.22 uV/-120dBm (Type)
Digital sensibility	0.3uV/-117.4dBm (BER 5%) / 0.7uV/-110dBm(BER 1%)
Co-channel Rejection	≥-12dB
Spurious response	TIA603C: 75dB ETSI: 70dB
Adjacent channel selectivity	TIA603C: 65dB ETSI: 60dB
Rated audio power	1W
Audio response	=1dB-3dB
Rated audio distortion	3% (Type)
Spurious radiation	Antenna: 9KHz-1GHz ≤-57dBm / 1GHz-12.76GHz ≤-47dBm

Accessory List

Standard Accessories:

Hand Set, Battery, Adapter,Charger Tray,
Belt Clip, Hand Strap, User's Marker

Optional Accessories:

Hand Free Kit, Leather Carry Case,
Programming Kit

