

PRC-4090 HF SDR Transceiver - General Specifications

Tx Frequency Range	1.6MHz – 30MHz
Rx Frequency Range	250KHz – 30MHz
Channel Capacity	1000
Frequency Stability	±0.1 ppm(±0.5 ppmun-synchronised)
Frequency Resolution	1 Hz tunable receiver
Operating Modes	J3E (USB, LSB) – H2B (AM) – J2A (CW) – CF (CustomFilter) – ISB (Data)Option
Filter Bandwidths	Fully software-defined standard and custom filter range from 300Hz to 3300Hz (6KHz ISB Option)
Operating Temperature	-30°C to+70°C, relative humidity 95%, non condensing
Frequency Hopping (optional)	5 or 25 hops per second
Digital Voice (optional)	Auto baud rates 600/700, 1200, 2400 (MELP/TWELP)
Encryption standards (optional)	AES 256&DES 56
Supply Voltage	+12V d.c. to+28V d.c. operation
Selcall System	Based on CCIR 493-4, 4 and 6 digit systems
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ALE Standards (optional)	2G&3GALE (MIL STD 188-141B &STANAG4538)
Current Consumption	250mA (Rx)
Sensitivity	-121dBm(0.20 µV) for 10dB SINAD*

RF Output Power	10W/ 30WPEP (with16.4V d.c. battery supply)&150WPEP (with SDS&24V Supply)
Duty Cycle	100% data with fan option
Weight	<ul style="list-style-type: none"> - PRC-4090 transceiver body (only) 2.95kg - PRC-4090 transceiver bodywith advanced 16Ah Li-ion battery pack (4090-03-05) 5.00kg - PRC-4090 transceiver bodywith BB2590 Li-ion battery pack 4.30kg - PRC-4090 transceiver bodywith BA5590 (non rechargeable) battery pack 3.95kg
Battery	Barrett High performance 16Ah Li-ion battery pack with inbuilt charger (2.05kg)
Standards	<p>Designed to meet or exceed:</p> <ul style="list-style-type: none"> - FCC - Part 87# - FCC - Part 90# - IC (Industry Canada)# - CE# - Australia/New Zealand AS/NZS 4770:2000 and AS/NZS 4582:1999 and AS60529:2004# - EMC and vibration Standard IEC 945# - Designed tomeetMIL-STD 810Gfor immersion, temperature, humidity, altitude, shock, vibration - NTIA# - JITC#

*reduced sensitivity 250 kHz to 500 kHz

#Approval pending

Specifications are typical. Equipment descriptions and specifications are subject to change without notice or obligation.