

## Aurora C50 Mobile Radio - Technical Data

TYPE OF STATION		Aurora C52	Aurora C54	Aurora C55
<b>GENERAL</b>				
Operating mode		Simplex or Duplex		
Frequency range		68 - 88 MHz	146 - 174 MHz	378-450 MHz 430-470 MHz
Number of channels		1000		
Selective call		CCIR, ZVEI, ZVEI-S, EEA, DTMF and CTCSS		
Channel spacing		25/20 kHz (12.5 kHz as option.), optional 12.5/20/25 kHz in one radio		
Frequency stability (Carrier)		± 1.35 kHz	± 2 kHz	± 2 kHz
Antenna impedance and type		50 ohm TNC connector		
Supply voltage		10.8 - 15.6 V DC, nominal 13.2 V		
Voltage to interface		10.8 - 15.6 V DC maximum 0.2 A short protected		
Supply current				
Transmitting		Approximate 5.5 A at 13.2 V DC and 25 W		
Receiving		Approximate 1 A at 13.2 V DC		
Stand by		Approximate 0.2 A at 13.2 V DC		
Weight		Transceiver: less than 1.5 kg. Control unit: 140 g		
Dimensions transceiver (WxDxH)		Approximate 175 x 154 x 40 mm		
Operating temperature range		-25°C to +55°C		
Storage temperature range		-30°C to +70°C		
Standards		Meets or exceeds EN 300 086-2, EN 300 219-2, EN 301 489-5, EN 60950, EU-Directive 95/54/EC		
<b>TRANSMITTER</b>				
Output power		1-25 W	1-25 W	378-400 MHz 1-20 W 400-470 MHz 1-25 W
Microphone sensitivity and impedance		5 mV / 2 kΩ		
Adjacent channel power		Better than -70 dBc for 25 kHz channel separation		
Spurious radiation	30 MHz - 1 GHz	Less than -36 dBm		
	1 GHz - 4 GHz	Less than -30 dBm		
<b>RECEIVER</b>				
Intermediate frequencies		1 <sup>st</sup> : 45 MHz, 2 <sup>nd</sup> : 450 kHz		
Sensitivity		Better than -116 dBm (typically -119dBm)		
Switching bandwidth		Full band		
Audio output power		4 W / 4 Ω		
Intermodulation rejection		Better than -70 dB		
Spurious and image rejection		Better than -75 dB for 25 kHz channel separation		
Spurious radiation	30 MHz - 1 GHz	Less than -57 dBm		
	1 GHz - 4 GHz	Less than -47 dBm		

TC Connect products are under continuo's development. We therefore reserve the right to change technical data or to modify the equipment without prior notice.