

**SMC**

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## **SM100/160**

## Mobile Transceiver

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Rugged Cast Aluminium case

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Tested to US Military Standards (MIL-STD 810 C,D,E)

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Scanning with Priority Channel

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Upgradeable with digital encryption

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The future never sounded so good



SM-100

Organisations with a mobile workforce are realising the need for reliable, easy to use, communications systems. Mobile radio systems can provide effective fleet management with the benefit of low running costs.

The SM-100 is a simple easy to use, 4 channel mobile (99 channels on the SM-160) with a high specification but an affordable price.

It fits in a standard car radio mounting slot and with its front panel speaker allows for quick installation.

Rugged construction using surface mount technology means the SM-100 will give you years of trouble free service.



SM-160

## Technical Specification

<b>Operation</b>	Simplex and semi-duplex
<b>Channels</b>	4 (SM160 - 99 channels)
<b>Bands</b>	VHF: 136-162MHz, 148-174MHz UHF: 400-430MHz, 440-470MHz, 420-450MHz
<b>SM100</b>	
<b>SM160</b>	VHF: 148-174MHz UHF: 440-470MHz
<b>Channel spacing</b>	12.5kHz, 20kHz or 25kHz (programmable)
<b>Switching bandwidth</b>	Full band
<b>RF outputs</b>	1-25W (hi/low programmable)
<b>Receiver sensitivity</b>	Less than -119dBm @ 12dB SINAD
<b>Intermod rejection</b>	More than 65dB
<b>Selectivity</b>	More than 70dB
<b>Maximum deviation</b>	+/-5kHz @ 25kHz, +/-2.5kHz @ 12.5kHz
<b>Operating mode</b>	16F3 @ 25kHz, 8F3 @ 12.5kHz
<b>Squelch sensitivity</b>	Less than 0.25uV
<b>Tone sets</b>	CTCSS/DCS
<b>Audio output</b>	5W at less than 5% distortion through internal speaker
<b>Dimensions</b>	48mm high x 174mm wide x 158mm deep
<b>Weight</b>	1440g
<b>Approvals</b>	ETS 300.086, ETS 300.219, ETS 300.279
<b>Robustness</b>	Conforms to Military Standard MIL-STD 810C, D, E for resistance to extremes of heat, pressure, water ingress and vibration. Certified to IEC 529 level IP54 for dust and water ingress
<b>Operating temperature</b>	-30 degrees C to +60 degrees C
<b>Output impedance</b>	50 ohm
<b>Frequency stability</b>	+/-0.000004%

