



SC-VHFM & SC-UHFM Professional Mobile Transceivers

Datron's SCM line of professional mobile transceivers provides users with compact, feature-rich, vehicular communications anywhere in the world. Products are offered in the VHF band (136 – 174 MHz) and in the UHF band (450 – 480 MHz). A complete line of accessories including mounts, power cables, cloning cable, and a microphone are also available to complement the radios

Standard features common to all transceivers in the SCM family include the following:

- **32 channels of operation** — Each channel can be programmed to operate in a simplex, half-duplex, or receive-only mode.
- **Internal loudspeaker** — The transceivers have a built-in loudspeaker capable of providing up to 2W audio output.
- **Mounting Accessories** — Datron offers a bracket for the transceiver and a Dc power cable that allows convenient mounting in the vehicle.
- **Rugged Microphone Connector** — A rugged, reliable microphone connector is conveniently located on the front panel of the transceivers.
- **Large keypad/display** — The transceivers have an easy to use keypad that is DTMF ready.
- **Scan/priority scan** — Scan and priority scan ensures that the user will not miss any important calls on his Priority Channel. Both features are user selectable, and the Priority Channel is user programmable.
- **Cloning**. A radio can be cloned to any other radio and will transfer the programming data within seconds.
- **Durable Design** — The radios have been developed to MIL-SPEC requirements allowing operation in extremely harsh environments.
- **Function/features Keys** — These controls allow the user to lock the keypad, enable backlighting, reduce the Transmit RF power level, and disable the audio tones as needed.
- **Channel select** — Provides direct channel access through the keypad or through the two up/down channel select keys.

Datron is always pleased to provide technical or applications help to its customers. For more information about these professional mobile products, please contact the Datron factory or your Regional Sales Director.



- **32 Channels**
- **CTCSS (PL)
DCS (DPL)**
- **Keypad/Display**
- **Busy channel
Lockout**
- **Scan/Priority
Scan**
- **10/45 W Power
Levels**
- **Built-in
Loudspeaker**
- **Rugged
Construction**
- **Mounting
Accessories**
- **Easy to Operate**



GENERAL

Size	1.6" H x 5.5" W x 7.1" D (40mm x 140mm x 180mm)
Weight	2.2 lbs (1 kg)
Dc Power Supply	13.6 Vdc
Current drain	11A (TX); 0.9A (RX); 300mA (Standby)
Temperature Range	-30 to +60 degrees C.

ELECTRICAL

Frequency range	SC-VHF: 136 – 174 MHz SC-UHF: 450-480 MHz
Channel Capacity	32
Channel Spacing	12.5 kHz
Channel Increments	SC-VHF: 2.5 kHz SC-UHF: 5/6.25 kHz
Operating BW	SC-VHF: 20 MHz SC-UHF: 15 MHz
Frequency Stability	+/- 0.0005 %
FM hum and noise	-40 dB
Modulation	16F3

TRANSMITTER

Power Output	10W (Low power); 45W (High power)
Mod Limiting	+/- 2.5 kHz @ 12.5 kHz
Spurious	-75 dBc
Audio distortion	3%

RECEIVER

Sensitivity	0.2 uV for 12 dB SINAD
Squelch Threshold sensitivity	0.1 uV
Selectivity (adjacent channel)	SC-VHF: -75 dB SC-UHF: -70 dB
Intermodulation	-65 dB
Spurious (Image rejection)	SC-VHF: -85 dB SC-UHF: -80 dB
Audio output	Internal loudspeaker; 2W, with 10% THD, max.

ACCESSORIES

MMSC Mobile microphone

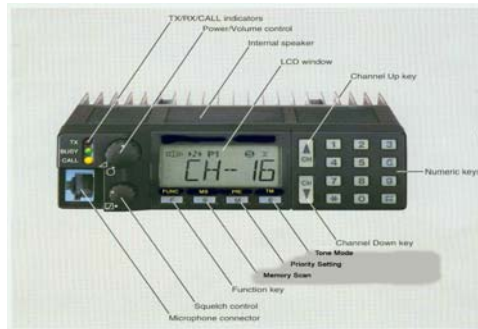
MBSC Mounting Bracket

PCC12 Power Cable

CC2 cloning cable

All specifications subject to change without notice. (All measurements made in accordance with TIA/EIA standards)
Rev 20060315BH

A view of SCM mobile transceivers showing the front panel connectors, controls, and indicators.



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