UHF280 Compact UHF CB with Controller Speaker Microphone



Key Features

- 5.0 Watts (max TX power)
- 80 Narrowband Channels*
- Controller Speaker Microphone scanner (400 512MHz)
- 8500+ Receive frequencies
- 200 user programmable receive only channels
- 5 Digit Selcall ID with alpha display
- 38 CTCSS and 104 DCS Codes
- Tri colour backlit LCD display (Amber/Red/Green)
- Duplex (range extender)
- Open/Group/Priority Scan
- Priority channel
- Large easy to read LCD display
- Digital squelch control
- Busy channel lockout
- Rugged chassis construction with external heat sink
- One 3.5mm external speaker connections (external speaker not supplied)
- Requires external antenna (not supplied)

Pack Includes;

- In-vehicle UHF CB Radio transceiver
- Controller Speaker Microphone plus microphone hanger
- Power cable with in-line fuse



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UHF280

Compact UHF CB with Controller Speaker Microphone



UHF280 Technical Specification

Frequency Range TX Frequency Range RX Author of TX/RX Channels Number of TX/RX Channels Number of IX/RX Channels Number of IX/RX Number of IX/	Compliance	AS/NZS 4365:2011
Frequency Range RX Number of TX/RX Channels Number of user programmable RX only Channels Channel Spacing TX/RX 12.5KHz Wide Band Scanner 400~512, 400~420, 420~450, 450~470, 470~512 MHz Operating modes Simplex, Repeater TX offset (+750kHz) Selcall ID 5 Digit with alpha display Scanning Speed 130 msec per channel Antenna Impeadance 50 Ohms Operating Volts nominal 13.8 VDC Operating Volts Range 10 to 15 VDC Over Voltage Protection Diode and voltage regulator Over Current Protection Reverse Polarity Protection Frequency Stability +/- Sppm Transmitter RF Output Power Modulation Maximum Deviation 2 .5kHz Spurious Emissions 4 .6dB/octave from 300Hz to 3kHz Current Consumption during TX 1.6 Amps with 50 Ohm antenna termination	<u> </u>	
Number of TX/RX Channels 80 UHF CB Number of user programmable RX only Channels 200 Channel Spacing TX/RX 12.5KHz Wide Band Scanner 400-512, 400-420, 420-450, 450-470, 470-512 MHz Operating modes Simplex, Repeater TX offset (+750kHz) Selcall ID 5 Digit with alpha display Scanning Speed 130 msec per channel Antenna Impeadance 50 Ohms Operating Volts nominal 13.8 VDC Operating Volts Range 10 to 15 VDC Over Voltage Protection Diode and voltage regulator Over Current Protection 2 Amp fuse Reverse Polarity Protection Shunt diode Frequency Stability +/- 5ppm Transmitter Nominal 5watts Modulation F3E (FM) Moximum Deviation 2.5kHz Spurious Emissions < -30 dBm		
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RF Output Power Modulation F3E (FM) Maximum Deviation Spurious Emissions TX Audio pre-emphasis Current Consumption during TX Nominal 5watts F3E (FM) 2.5kHz <-30 dBm + 6dB/octave from 300Hz to 3kHz 1.6 Amps with 50 Ohm antenna termination	Frequency Stability	+/- 5ppm
Modulation F3E (FM) Maximum Deviation 2.5kHz Spurious Emissions < -30 dBm	Transmitter	
Maximum Deviation 2.5kHz Spurious Emissions < -30 dBm	RF Output Power	Nominal 5watts
Spurious Emissions < -30 dBm	Modulation	F3E (FM)
TX Audio pre-emphasis + 6dB/octave from 300Hz to 3kHz Current Consumption during TX 1.6 Amps with 50 Ohm antenna termination	Maximum Deviation	2.5kHz
Current Consumption during TX 1.6 Amps with 50 Ohm antenna termination	Spurious Emissions	< -30 dBm
1 3	TX Audio pre-emphasis	+ 6dB/octave from 300Hz to 3kHz
Reciever	Current Consumption during TX	1.6 Amps with 50 Ohm antenna termination
	Reciever	
Circuit Type Dual conversion superheterodyne	Circuit Type	, ,
IF Frequencies 1st IF = 30.85MHz , 2nd IF = 450kHz	IF Frequencies	1st IF = 30.85MHz , 2nd IF = 450kHz
Current Consumption during RX 200mA	Current Consumption during RX	200mA
Sensitivity < -123dBm at 12dB SINAD	Sensitivity	< -123dBm at 12dB SINAD
Sensitivity Receive only channels < -110dBm for 12dB SINAD	Sensitivity Receive only channels	< -110dBm for 12dB SINAD
Selectivity +/-3.75kHz min @ 3dB to +/-15kHz max @ 40dB	Selectivity	+/-3.75kHz min @ 3dB to +/-15kHz max @ 40dB
Intermodulation Immunity > 70dB	Intermodulation Immunity	> 70dB
Spurious Immunity > 70dB	Spurious Immunity	> 70dB
Audio Output Power 3 Watts Maximum	Audio Output Power	3 Watts Maximum
RX Audio de-emphasis -6dB/octave 300Hz to 3kHz	RX Audio de-emphasis	-6dB/octave 300Hz to 3kHz
Audio frequency response 300Hz to 3kHz	Audio frequency response	300Hz to 3kHz
External speaker jacks One on transceiver one on head unit for optional 8 Ohm mono speaker (3.5mm jack.)	External speaker jacks	One on transceiver one on head unit for optional 8 Ohm mono speaker (3.5mm jack.)
Transciever	Transciever	
Dimensions 135 (d) x 110 (w) x 29 (h) mm	Dimensions	135 (d) x 110 (w) x 29 (h) mm
Weight 420g	Weight	420g

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This 80 channel narrowband radio communicates with 40 channel radios on the first 40 channels [1 to 40] but has another 40 channels (41 to 80) which will communicate with new 80 channel narrowband radios. In total there are 75 useable Narrowband voice channels. Voice communications are prohibited on Channels 22 and 23 as they are used for Telemetry and Telecommand. Channels 61,62 and 63 are guard channels and are not available for use. Channel 5 and 51 (paired for Duplex repeaters) are emergency channels and should be used only in an emergenand DCS function are not allowed to operate on these channels. A list of currently authorised channels can be obtained from the ACMA website in Australia and the MED website in New Zealand. There are 8 Repeater channels 11 to 8 output (31 to 38 input). Additional repeater channels 41-48 input and 71-78 output are now also available. This radio is user upgradable of no cost to allow repeater use on channels 41-48 and 71-78. Details are available on our website on how to upgrade the radio. Any designated repeater channel may be used for simplex operation in areas where it is not in operational range of a CB repeater station.

