



COMMERCIAL RADIO



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Standard Features

GME has built a reputation for technical innovation and customer service within the Australasian commercial radio market.

The combination of new technologies with decades of GME research and development enable our products to deliver the ultimate in reliability, flexibility and cost effective solutions for present and future communication requirements.

The GME range of commercial radio products are ideal for both the large systems integrator with an extensive network of mobiles, portables and repeaters, or the small operator with just a single site.

Scanning

Open Scan (OS): scans the preselected channels in an ascending sequence.

Group Scan (GS): scans in the same ascending sequence, but monitors and gives precedence to the preselected priority channel.

Voting

The 'Multi-Trunk' system automatically selects the next available channel on repeater sites using multiple frequency pairs. This allows an efficient sharing of the limited frequency resources.

RSSI voting allows a radio to always lock onto the strongest receive channel.

Display

High contrast, backlit Liquid Crystal Display (LCD) with Alpha-Numeric labelling of selected channels and user names. This simplifies channel selection and the identification of incoming callers when using Automatic Number Identification (ANI) selcall.

Selcall

Allows individual radios to be called on a shared channel without the other radios being disturbed. Group Selcall allows more than one radio to be called with a preprogram selcall code.

Talk around

Enables the radio to talk directly to another radio when both parties are using a repeater channel without going through the repeater itself. This may be necessary when the repeater is out of range but both radios are still within range of each other.

CTCSS

Continuous Tone-Coded Squelch System (CTCSS) or Digital Coded Squelch (DCS) is a quietening system that allows a group of radios to talk to each other without hearing other users on the same channel.

DTMF

Allows a mobile or portable to send and receive DTMF tones for selective calling or making and receiving phone calls via dedicated PABX interface hardware.





BX MODEL

Engineered to provide a compact and reliable solution for all your commercial handheld requirements.

BX710 - VHF

5/1 watt VHF radio
148 MHz - 174 MHz

Simple, practical and affordable the BX710 is a tough and compact VHF handheld radio packed with features and a super sensitive VHF receiver with front end filtering and a powerful 5 watt VHF transmitter. For close range communications the transmitter can be switched to 1 watt to increase the available talk time.

Features

- > Up to 128 dealer programmable channels
- > 5/1 watt RF output power
- > 6.25/12.5/25 kHz channel spacing
- > 12-25 kHz channel spacing
- > Dual watch, priority channel, memory scan, busy channel lockout and VOX.
- > 1700 mAh Li-Ion battery pack
- > CTCSS and DCS
- > Keypad lock



Accessories supplied

- > Desktop fast-charger
- > AC adapter
- > Heavy duty holster/belt clip
- > Speaker microphone
- > Antenna

Optional accessories

- > 6-way multi-charger - BCM001
- > Leather case - LC003

TX7200 - UHF

5/1 watt 124 channel UHF
radio 450 MHz - 520 MHz

Regardless of your application, the TX7200 puts a world of advanced technology at your fingertips. Packed with high performance features which can be dealer programmed to meet the individual user's present and future requirements. Designed to be easily operated, even when wearing gloves.

The impressive 124 channel capacity which can be further extended with all 80 CBRS UHF channels, ideal for even the largest fleet or operation. Powered by a high quality 1500 mAh NiMH battery pack, battery life is extended with an automatic receiver 'sleep' mode and 'quiet' mode. Audible and visual alarms warn the user of low battery voltage.

The TX7200 is 100% Australian made with ultra-miniature surface mounted components using the latest in solder reflow techniques for high performance and reliability. A rugged die-cast metal chassis houses the circuit boards inside a tough poly carbonate case. The TX7200 meets the MIL-STD810C/D/E standards for shock, vibration, humidity, dust and moisture.

Features

- > 12.5 kHz/25 kHz switching
- > Standard UHF CB channels
- > 'Multi-Trunk' and RSSI voting
- > CTCSS encoding and decoding
- > 6 function programmable soft keys
- > ANI selcall
- > 1500 mAh battery pack

Accessories supplied

- > Desktop fast-charger (TX7200P)
- > Belt clip
- > Antenna

Optional accessories

- > Leather carry case - LC001
Heavy duty version - LCH001
- > Speaker microphone with 90° connector - MC001
heavy duty version - MC004.
- > Headset with boom mic - HS003
- > In-car kit - CK6000





TX3600

5/1 watt UHF radio
450 - 520 MHz

The TX3600 represents a major advancement in commercial radio with outstanding features and performance. As with all GME fixed mobile radios, the TX3600 is designed and manufactured at our ISO9001 certified facility in Sydney and built to the most stringent manufacturing and engineering standards.

The compact design incorporates a rugged die-cast aluminium chassis. The robust construction enables the TX3600 to withstand the rigours of constant vibration and extreme temperatures.

Installation is simple, the compact TX3600 easily fits into the confines of modern vehicles. The series boasts a remote control head mounting option and for traditional DIN sized console the MBD001 DIN adapter kit is also available. The built-in speaker can be mounted facing either upwards or downwards for clear audio

The TX3600 can be configured to meet the user's individual needs offering reliable, cost effective communications. The TX3600 is fully compatible with the RP3800 repeater, making it the ideal radio for mobile communications in the toughest of environments.



Features

- > 450 - 520 MHz frequency range plus all 80 UHF CB channels.
- > Complete band switching
- > Wide/narrow band operation
- > Compact, lightweight and rugged.
- > Standard 'Multi-Trunk' and RSSI voting.
- > CTCSS/DCS encoding and decoding
- > Multi format selcall
- > Optional remote conversion kit available - model RCK3600.

Accessories supplied

- > Mounting cradle and screw pack
- > Microphone with extension lead
- > Lead adapter and adapter mount
- > Microphone clip
- > DC lead

Optional accessories

- > DIN adapter kit - MBD001.



TX3600BW

5/1 watt UHF base radio
450 - 520 MHz

The GME modular series offers the end user greater flexibility when choosing a commercial radio. It allows the client to select a base radio a with a remote MC522BC LCD controller microphone, or a base unit, remote head RH003 or any other microphone in the GME commercial range.



Accessories supplied

- > Mounting cradle and screw pack
- > Microphone extension lead
- > Adapter for extension lead
- > DC lead



TX3600BW, RH003 and MC503BC



TX3600BW and MC522BC

RH003

Remote head

Specifically designed for use with the TX3600BW, TX3820UB and TX3820VB base units. Utilising the RH003 remote head provides total installation flexibility whilst retaining all the features of the TX3600/TX3820U/V under dash series. When using the RH003 customers can select the most suitable microphone for the vehicle, ranging from the MC509BC with a simple PTT button through to the full keypad MC540BC microphone.



Accessories supplied

- > Mounting cradle and screw pack





MC522BC
LCD controller microphone

TX3820U/V

25/5 watt switchable UHF 450 - 520 MHz
VHF 136 - 174 MHz wide/narrow switching by channel

Similar to the TX3600, the TX3820 series is packed with an impressive list of features; the 'flash' upgradeable microprocessor and flexible programming guarantees an upgrade path to meet system operators current and future two-way radio requirements. The compact modular design of the TX3820 series incorporates a rugged die-cast aluminium chassis to ensure it to can withstand the constant vibration and extreme temperatures common to the Australian environment.

The TX3820U and TX3820V both provide a full 25 watts of RF output power without compromising the size of the radio. The depth of the chassis is a mere 50 mm larger than the TX3600. The integrated die-cast chassis and top cover concept

provides highly effective heat dissipation even at prolonged 25 watt operation, so confident is GME in this design that a full two year no quibble warranty is offered on all Australian built mobile radios.

Installation is simple. Measuring just 128 mm (W) x 165 mm (L) x 29 mm (H) the TX3820U/V easily fits into the confines of modern vehicles. For traditional DIN sized console mounting the MBD001 DIN adaptor kit is available. The built-in speaker can be mounted facing either upwards or downwards for clear audio.



Accessories supplied

- > Mounting cradle and screw pack
- > Microphone
- > Lead adapter and adapter mount
- > Microphone clip
- > DC lead

Features

- > All Australian 80 UHF CB channels via programming tick box
- > Complete band switching in VHF and UHF
- > Wide/narrow band operation per channel using discrete filtering.
- > Compact, lightweight and rugged.
- > Standard 'Multi-Trunk' and RSSI voting.
- > CTCSS/DCS encoding and decoding
- > Multi format selective call
- > Optional remote conversion kit
- > 5 tone mute for PTT ID
- > Duress alarm with PTT lock

Optional accessories

- > MBD001 DIN adapter kit



TX3820UB & TX3820VB

25/5 watt switchable UHF 450 - 520 MHz
VHF 136 - 174 MHz wide/narrow switching by channel

The continued development of GME's TX3820U and TX3820V under dash series of UHF radios represents a major advance in Australian mobile two-way radio, with outstanding features, value for money, performance and flexibility. Now with the modular option, installation can be tailored to suit the customer's specific operational requirement and vehicle type. By selecting the RH003 remote head and choice of microphone, or as an alternative the compact full function MC522BC remote LCD controller microphone.



TX3820UB and MC522BC controller microphone



TX3820VB, RH003 REMOTE HEAD and MC503BC microphone

Accessories supplied

- > Mounting cradle and screw pack
- > Adapter for extension lead
- > Microphone extension lead
- > DC lead

Microphones

MC522BC
LCD controller microphone

To suit the TX3600BW/TX3820UB and TX3820VB modular series. The convenient MC522BC allows for easy installation when space is a premium, giving the user full radio functionality in the palm of their hand.

MC540BC
DTMF microphone

To suit the TX3600/TX3820UV series, with full keypad functionality.



MC503BC
Electret microphone

To suit the TX3600/TX3820V, TX3820U and RH003. With channel up/down, priority and call buttons.



MC509BC
Electret microphone

To suit the TX3600/TX3820V, TX3820U and RH003. With call button.





TX4800

TX4800U - 450 - 520 MHz
TX4800UL - 400 - 480 MHz
TX4800V - 148 - 174 MHz

A unique and truly remarkable product line, ingress protected to IP67 the TX4800 series is compact, powerful, robust and reliable. It's the perfect communications solution for wet or dusty environments such as underground or open-cut mines. The TX4800 is now available in VHF 148 – 174 MHz, UHF 400 – 480 MHz and 450 – 520 MHz frequency bands.

Engineered to meet Mil Standards 810 C, D and E, with a comprehensive feature set and a 'future-proof' Flash upgradeable 16 Bit microprocessor, the TX4800 is the smart choice for both today and future demands.

The overall TX4800 chassis depth is a mere 70 mm, making it the smallest 25 watt UHF/VHF commercial radio manufactured in Australia. A design that takes advantage of the large rear cooling fins, allowing the dissipation of heat generated by the 25 watt output power, whilst simultaneously providing an extremely stable, ingress protected and dependable radio transceiver.



Accessories supplied

- > Mounting cradle and screw pack
- > Microphone
- > Microphone clip
- > DC lead

Features

- > Complete band switching VHF or UHF
- > Ingress protected to IP67
- > 500 channel capacity with 50 operational zones
- > Wide/narrow band operation by channel
- > Compact, lightweight and rugged.
- > Standard 'Multi-Trunk' and RSSI voting.
- > CTCSS/DCS encoding and decoding
- > Multi format selcall
- > CSV file import and print

Optional accessories

- > Flush mount kit – MK001B
- > Din flush mount – MBD002B



BCM001

Desktop multi-charger

The new 6 way multi-charger offers full flexibility by way of being able to simultaneously charge any combination of the BX series or TX7200 hand held radios.

The mechanical differences between the BX series and the TX7200 are overcome by the BCM001's innovative charging pocket design.

The BCM001 is supplied without charging pockets allowing the user to individually select the appropriate pockets for their radio fleet.

Optional accessories

- > TX7200 charging pocket – CP001
- > BX series charging pocket – CP002

RP3800

Repeater and cross band link series

VHF 136 - 174 MHz
UHF 450 - 520 MHz
25/5 watt repeaters

The RP3800 was developed from the highly successful TX3600/TX3800 series as a low cost yet extremely versatile commercial repeater. Designed specifically as advanced low power consumption devices, the RP3800 is available as either a 25 watt 450 to 520 MHz, or 136 to 174 MHz repeater system, making it ideal for use in remote sites powered by solar panels.

With its unique integrated software features the RP3800 can significantly improve communications in hospitals, construction sites, shopping centres, hotels and rental operations.

Through its modular construction, using a combination of TX3600T, TX3800T and TX3820VB products, GME can also offer a single path cross band link application from VHF to UHF or UHF to VHF.

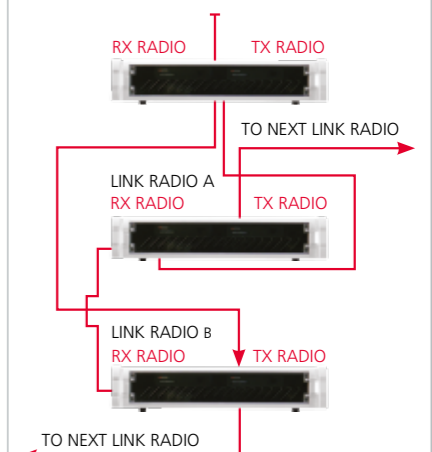
When used in conjunction with GME's mobiles and portables these repeaters provide a sophisticated, flexible yet cost effective communications solution.



Features

- > Die-cast metal construction
- > Up to 99 channel capacity
- > Microprocessor controlled frequency synthesizer provides user programmer control of channel memories and selected feature options.
- > Non volatile memory
- > Built-in CTCSS option to provide quiet channel operation of up to 5 users
- > Regenerated CTCSS on transmit for cross band link applications

Cross band link applications





THE SYSTEM

GME telemetry products offer a simple, cost effective system with an innovative range of both software and hardware solutions. The system is highly versatile and may be configured to meet a broad range of specific customer requirements including remote control and status monitoring.



The GME telemetry system can eliminate expensive time consuming visits to remote sites, by permitting 'over the air' commands to be sent 24 hours a day to carry out 'status interrogation' of equipment or environmental conditions. Any change to the status of these sites will immediately activate a visual and audible alarm at the base station.

A GME telemetry system comprises of a number of components: the telemetry radio, CIU control interface units, Super-Vise software program and the RCU3600 LCD data screen. Typically a system incorporates a base station (fixed or mobile) and a number of remote sites with GME radios providing the communication link.

Controlled at the base station by GME's proprietary Super-Vise software installed on a PC, or as an alternative with an RCU3600 LCD data screen; up to 99 remote sites can be controlled and monitored.

The CIU (Control Interface Unit) provides the interface between the remote sites radio and external sensors or remote control functions. A remote site CIU can

control up to 8 outputs and accept up to 8 on/off inputs.

Coverage

GME telemetry systems operate in the 148 - 174 MHz or the 450 - 520 MHz bands providing coverage of distances of up to 100 km between the base and a remote site. However, if the transmission path is obscured by the topography of the land or to a lesser extent buildings and trees, this range can be significantly reduced. In such situations GME radios can be configured as a 'Store-and-Forward' repeater thus extending the effective operational range of the system, the 5 or 25 watt output power will maintain a reliable link. For shorter distances the 1 watt output option may be selected.

Software

GME's proprietary Super-Vise Base Station control software which allows the control and monitoring of up to 99 outstations; it receives alarms and real time status updates. The software will register all results in an event log file, invaluable for analysing data and record keeping.

Communication

The GME telemetry system uses a standard 10 tone selcall protocol (CCIR) with a proprietary packet structure for all transmissions. This method is simple and robust, delivering greater range and superior error free transmissions. Transmitted signals contain the remote sites ID's, as well as the command or request message being sent or received.

The remote site relays the message back to the base station to confirm it has been correctly received. The base station is preprogrammed to re-transmit the message a given number of times until a confirmation is received. If no reply or an invalid response is received, a warning message is generated.

APPLICATIONS

Utilities and municipal

- > Water resources
- > Water supply
- > Waste water
- > Tank storage
- > Power plants
- > Electricity

Agriculture

- > Orchards and vineyards

Irrigation

- > Resorts and golf courses

Mining and construction

Equipment monitoring

- > Safety systems



TX3600D

Designed for easy installation and integration, the TX3600D features a fully specified integrated AFSK/FFSK data modem for point-to-point, multi-point data and telemetry solutions.

Operation modes

- Basic byte/addressable byte transparent 1200/2400/4800/7200 bps
- Asynchronous/synchronous 1200/2400/4800 and V23
- Wide-band audio/input/output
- Conventional voice over link
- In-built point to multipoint telemetry
- In-built GPS listener
- Point to multi-point telemetry

Features

- AS/NZS4295/ETS 300/086 compliance
- 5/1 watts output power
- 6.25/12.5/25 kHz channel offset
- Sensitive robust receiver: -121 dBm.
- Provision for remote sensing of battery voltage, temperature, RSSI and transmit power level.
- External audio modulation input/output in all modes, 1 Vp standard levels.
- Auxiliary telemetry signals are available directly from the radio unit: 8 digital output channels, 4 analogue input channels and 4 digital input channels.
- Normal voice communication or channel audio monitoring is possible via the optional plug in audio kit – AK3600.
- Low current draw <60ma standby <25 ma sleep mode
- Ideal for solar sites



Warranty



AUSTRALIAN MADE

TX3600T

5 watt telemetry radio

Designed and manufactured to operate in the harsh Australian environment, the rugged die-cast chassis coupled with the latest in surface mount electronic technology ensures optimum performance and reliability. The slide-in mounting cradle facilitates easy installation and the front mounted 8-way interface socket allows for quick connection to the RCU3600 remote display head or the AK3600 control head.



Warranty



AUSTRALIAN MADE

TX3800T

25 watt telemetry radio

All the features of the TX3600T as above but with a powerful 25 watt output.



Warranty



AUSTRALIAN MADE

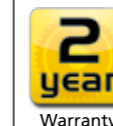
CIU4/CIU8

Control interface units

Housed in a weatherproof plastic case the CIU provides the interface between the TX3600T/3800T and external environment. An integrated opto-isolator protects the CIU and TX3600T/3800T from voltage transients and external sensor failure. Input and output statuses are indicated by individual LEDs.

The CIU4 has 4 digital outputs, 4 digital inputs and 2 analogue Inputs.

The CIU8 is fitted with 8 digital outputs and 8 inputs, of which 4 are digital and 4 can be configured as digital or analogue. Both the CIU4 and CIU8 operate from an external 12 Volt DC power source.



Warranty



AUSTRALIAN MADE

RCU3600

LCD data screen

A 4 line x 20 character remote control display head designed to connect to the TX3600T/3800T, for use in the control and monitoring of the GME telemetry system when a dedicated PC is not in use. The RCU3600 may be used with GME Super-Vise software as a secondary control point in a vehicle permitting the interrogation of inputs, outputs plus the control of outputs and decoding of outstation alarms.



Warranty



AUSTRALIAN MADE

AK3600

Audio kit

The AK3600 audio kit converts a standard TX3600T/3800T telemetry radio into a conventional talk-through radio. It is designed primarily to provide a voice channel to aid with the installation and testing of radio links within the GME telemetry system.



Warranty



AUSTRALIAN MADE



Radio Comparison Chart

MODELS	BX SERIES	TX7200	TX3600 SERIES	TX3820U	TX3820V	TX4800 U/UL/V	TX3600D	TX3600T	TX3800T	RP3800
TX Power	5/1	5/1	5/1	25/5	5/25	25/5	5/1	5/1	25/5	25/5
Channels	128	124 + 40 CB	124 + 40 CB	124 + 40 CB	124	500 + 40 CB	99	99	99	99
12.5/25 kHz Spacing	●	●	●	●	●	●	●	●	●	●
Frequency Coverage (MHz)	146-174	450-520	450-520	450-520	136-174	136-174 450-520 400-480	450-520	450-520	136-174 450-520	136-174 450-520
Busy Lockout	●	●	●	●	●	●	●	●	●	●
CTCSS	●	●	●	●	●	●	●	●	●	●
DCS	●		●	●	●	●				
Selcall		●	●	●	●	●				
Squelch Adjustment	●	●	●	●	●	●	●	●	●	●
Talk Around		●	●	●	●	●				
Illuminated Channel Display	●	●	●	●	●	●				
Display	LCD	LCD	LCD	LCD	LCD	LCD				
Monitor	●	●	●	●	●	●				
TX Indicator	●	●	●	●	●	●	●	●	●	●
RX Indicator	●	●	●	●	●	●	●	●	●	●
Open Scan	●	●	●	●	●	●				
Group Scan	●	●	●	●	●	●				
Timeout Timer	●	●	●	●	●	●	●	●	●	●
MIL 810 C/D/E		●	●	●	●	●	●	●	●	●
DTMF			●	●	●	●				
Voting		●	●	●	●	●				
Speaker	Front	Front	Bottom	Bottom	Bottom	Front				
Alarm Out			●	●	●	●	●	●	●	
Battery Indicator	●	●								
Low Battery Indicator	●	●								
3 Level Preset Squelch	●	●	●	●	●	●	●	●	●	●
Speaker/Mic Ready	●	●								
Keylock	●	●	●	●	●	●				
Dimensions (H x W x D mm) (Body only)	62 x 98 x 30	135 x 63 x 40	29 x 128 x 117	29 x 128 x 162	29 x 128 x 162	65 x 165 x 77	29 x 128 x 117	29 x 128 x 117	29 x 128 x 162	85 x 420 x 270 2RU
Weight (grams)	210	390	510	835	835	614	590	450	775	3600
Warranty Period (years)	1	2	2	2	2	2	2	2	2	2

* Specifications are typical unless otherwise indicated and may be subject to change without notice or obligation Measured without antenna

A division of

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