



PROJECT 25 MOBILE SOLUTIONS

SETTING NEW STANDARDS

GME P25 radios represent a significant opportunity for both large and small network operators to effectively future proof their communications systems. The CM1039 series of mobile radios permits fleet transition from a simple, yet fully featured analog transceiver to a totally compliant conventional or trunked P25 digital solution.

Through a constant dialog with users and dealers within the professional radio industry, reliability, size and ease of operation were recognized as key factors in the design of the new CM series. GME has thoroughly delivered on these aspirations, with a range of configurable options to suit any application and virtually any vehicle installation challenge.

Couple these attributes with the benefits of the P25 radio communications system, interoperability with other manufacturer's equipment, the scalable, cost effective CM series provides a truly flexible option in terminal selection.

GME has been designing and manufacturing RF based communications since 1959. GME has chosen Etherstack as its prime Technology Partner for the CM series P25 interface to ensure complete interoperability with the widest range of P25 systems and products.



KEY FEATURES

- > Cost Effective, Future Proof Operational Modes
- > Compact Size with Remote and Standard Mounting Models
- > Powered by Etherstack P25 Mobile Stack – Incorporating an Improved IMBE Vocoder
- > High Visibility 11 Segment Alpha/Numeric LCD with Continuously Variable Backlighting
- > Analog Operation with Integrated CTCSS, DTCS, 5 Tone & MDC1200 Signalling Capabilities
- > Compatible with US Narrowband Channel Spacing Initiative
- > Programmable Function Buttons
- > PCB Mounted Radio Control Interface



GENERAL	
RF Performance:	Compliant with AS/NZS 4295, ETS 300-086, TIA-603-C, FCC Parts 90/15, IC - RSS119
Frequency Band:	VHF 136 to 174MHz, UHF Lo 403 to 470MHz, UHF Hi 450 to 512MHz
RF Switching Bandwidth:	VHF 38MHz, UHF 70MHz
Number of channels:	1072
Channel Steps:	12.5 kHz, 6.26 kHz, 5 kHz, 2.5 kHz
Frequency Stability:	+/-1 kHz for -10°C to 60°C
Operating Voltage Range:	10.8V to 15.6V
Current Consumption:	RX muted: 170mA, RX full audio: 0.8A, TX: 5.0A (VHF) 6.0A (UHF)
TRANSMITTER	
RF Output:	25W, 10W, 5W, 1W selectable per channel
Transmit Duty Cycle:	4:1 for 25W output
Modulation:	FM, DC coupled, DSP audio processing
Deviation Limiting:	2.5 kHz at +20dB AF limiting
TX Audio Frequency Response:	+6dB/octave, +1dB/-3dB, 300 Hz to 3 kHz
AF Distortion:	3% below limiting
TX Audio Residual Noise and Hum:	-40dB
Spurious Emissions:	-36dBm
Adjacent Channel Power:	-60dBc
RECEIVER	
Circuit Type:	Double Conversion Superheterodyne DC Coupled, DSP audio processing
Sensitivity:	-122dBm for 12dB SINAD unweighted
Adjacent Channel Selectivity:	60dB
Spurious Rejection:	75dB
Intermodulation Rejection:	75dB
Blocking:	100dB
Conducted Spurious Emissions:	-80dBm
AUDIO	
RX Audio Frequency Response:	-6dB/octave, +1/-3dB, 300Hz to 3kHz
RX Audio Residual Noise and Hum:	-40dB
Audio Rated Power:	3W into 4ohms
MECHANICAL	
Dimensions:	1.14" (29mm) x 5" (127mm) x 6.4" (163mm)
Weight:	22oz (620g)
ENVIRONMENTAL	
Operating Temperature Range:	14F (-10C) to +122F (50C)
Shock and Vibration:	MIL SPEC 810

Specifications are subject to change

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MODEL	BAND	DESCRIPTION
CM1039V	136 – 174MHz	In/Under Dash Mounting Mobile Terminal
CM1039VB	136 – 174MHz	Remote Mounting RF/Power Module
CM1039UL	403 – 470MHz	In/Under Dash Mounting Mobile Terminal
CM1039ULB	403 – 470MHz	Remote Mounting RF/Power Module
CM1039U	450 – 512MHz	In/Under Dash Mounting Mobile Terminal
CM1039UB	450 – 512MHz	Remote Mounting RF/Power Module
RH004	–	Remote Control Head (suits CM1039VB/ULB/UB)
MC516BC	–	Standard Microphone
MC526BC	–	LCD Microphone (suits CM1039VB/ULB/UB)



CM1039VB c/w MC526BC LCD Microphone



ISO 9001: 2008
 AU97/0906
 List of certified characteristics available at www.sgs.com

