MICOM-2TS Trunk Mount

HF-SSB ALE Trunk Mount Digital Signal Processing Radio 125 watt PEP/Average 1.6-30 MHz

Micom-2TS is an advanced Ruggedized Digital Signal Processing transceiver, intended for very wide area radio communications. It provides, Voice, Data, Fax and E-mail solutions with a high degree of sophistication, signal quality and reliability, while being very simple to operate.

MICOM-2TS with its compact size provides maximum ease of installation. The Automatic Link Establishment-ALE (per FED-STD 1045 and MIL-STD 188/141B) is a Standard Feature.

- Features
- Enhanced DSP based Radio Platform
- Enhanced features for better communication
- Ruggedized Mobile / Fixed Transceiver
- Front panel programming
- Advanced digital technology
- Conforms to MIL-STD 810 and EIA /Specifications /
- ALE per FED-STD-1045 and MIL-STD-188/141B/
- High MTBF
- Security access code
- Variable Bandwidth for optimal signal processing
- Voice activated digital squelch
- Programmable channel scan
- Digital noise blanking and clarifier
- Guard and Priority Channels
- Continuous duty operation (optional)
- Multi-language Liquid Crystal Display
- BITE (Built-in Test)
- Meets FCC and EMC standards
- Selectable front-end Attenuator
- Enhanced Voice Quality
- Excellent frequency stability
- Selectable Power Output
- Small Size, Light Weight
 - Variable notch filter
 - Sub-octave pre-selector
- Adaptable internal configuration options
- Multinet Operation For A.L.E (optional)





MICOM-2TS Trunk Mount

HF-SSB ALE Trunk Mount Digital Signal Proccessing radio 125 watt PEP/Average 1.6-30 MHz

		GE	ENERAL	_			
		M81AMN0KV5-K					
		1.6 MHz Tx, 100 KHz-30 MHz Rx					
Number of Channels:							
Scanning:							
/ Frequency Stability:							
/Frequency/Drift (Aging):		1, PPM per year					
/ Synthesizer Lock Time;			10 msec max.				
/ Frequency Resolution: 1			10 Hz				
Audio Bandwidths@-6dB:			Voice: 350 to 2700 Hz				
/	/	CW: 650 to 1150 Hz					
/	/	Low	speed data	: 1450 to 1	950 Hz		
			High speed data*: 350 to 3300 Hz				
Operating Temp	Range:	-30 ⁰	to +60°C				
Humidity: -95% @ 50°C							
Operating V	/oltage:	13.8	3 VDC ±20%	Neg. Grou	und		
	ALE:	Per	FED-STD 1	045 and M	il-STD 188	3/141A	
Current Drain Receive Transmit							
@ 13.8 VDC		hod	Full Audio	Voice	2 Tone 1	Tone	
@ (0.0 VDO	2.2/		3A		23A 28		
\		•					
Dimensions	Height		Width	Depth	We	ight	
and Weight	mm/inch		mm/inch	mm/inch	Kg	Lb	
Radio Unit	92 / 3,7		302 / 11.9	285 / 11.3	5.8	12.8	
Control Head	60 / 2.	36	187 / 7.367	70 / 2.75	0.32	0.71	
*Optional, for authorized users only.							

TR	ANSMITTER				
Output Power: 125w P.E.P. and average					
Reduced Power Levels:	25W, 62W 100W (RSS Programmable)				
Audio Bandwidth Ripple:	3 dB				
Intermodulation:	-31 dB/P.E.P. (-35 dB/P.E.P. Typical Note 1)				
Harmonic Emissions:	-64-dB/P.E.P. (-70 dB/P.E.P. Typical Note 1)				
Spurious Emissions:	-64 dB/P.E.P. (-70 dB/P.E.P. Typical Note 1)				
Carrier Suppression:	-50 dB/P.E.P.				
Undesired Sideband	/				
Suppression:	-55 dB/P.E.P.				
Audio Distortion:	2.5%				
1/2 Power Mic. Sensitivity:	25 to 125 mV (RMS)/600 ohms				
Hum & Ripple:	50 dB				
Inband Noise:	-60 dB (30 Hz BW)				
Tx/Rx Switching Time:	10 msec				
Tx Tuning Adjustments:	None				

Note 1: Values noted as typical are valid over 90% or more of the frequency range.

OPTIONS

R	ECEIVER		
Sensitivity (SINAD) SSB:			
(Voice)	(0.3µv Typically)		
`,	0.1-1.6 MHz - reduced performance		
	1μv for 2.5W audio\@ speaker		
Selectivity:	-6 dB @ 350 to 2700 Hz		
	-60 dB @ -1 kHz, +4 kHz		
Image Rejection:	-80 dB \		
IF Rejection:			
Undesired Sideband Rejection:	-55 dB @ -1\kHz		
Spurious Rejection:	-80 dB		
Intermediation Rejection:	-80 dB		
Cross ModulationRejection:			
Desensitization:	-100 dB @100 kHz		
Reciprocal Mixing:	-100 dB @100 kHz		
Audio Power @ Speaker:	5W @ 2.5% distortion		
RGC Range:	5µv 1V (2 dB change in output level)		
RGC Time Constant Voice:	Attack time 10 msec		
/ /	Release time 1500 msec		
/ Data:	Attack time 10 msec		
/ /	Release time 1500 msec		
	Constant SINAD (digital)		
Clarifier Range:	/ ±200 Hz in 10 Hz steps/		
Receiver Tuning Adjustments:	None /		
Antenna Input Protection:	20 kV máximum transient, 100V RMS for/		
	2 minutes / /		

& INDUSTRIAL

Micom-2TS meets the following US military and industrial standard requirements for adverse environmental conditions (without the need external shock/mounts)

,	,	,	/
Environmental Condition	US Military STD 810C	US Military STD 810D	US Military STD 810E
Vibration	Method 514.2	Method 514.3	/ Method 514.4
Shock	516.2	516.3 /	516.4
- Rain	<u> </u>	506.2 /	506.3
Dust 510.1		510.2	510.3
Salt Fog 509.1		509.2	509.3

The Micom-2TS also meets the EIA-RS152B for shock, vibration and applicable test procedures, US FCC for channel occupancy, spurious, interference and frequency tolerance. It is manufactured according to the demanding standards ISO 9001 and EMC (Electromagnetic Compatibility).

FCC information; FCC Applicable Parts of Rules: 15, 80, 90 FCC Type Acceptance Number : ABZ9QCC1635 With High Stability Option: ABZ9QCC1634

J3E, R3E, H3E, J2A, B8C

MAJOR ACCESSORIES

- Phone Patch
- Micom-Link (FM-HF repeater)
- Automatic Antenna Tuner
- Continuous Duty Kit
- AC Power Supply
- Pre-post Selector

Automatic Telephone Interconnect

- 1 kW Amplifier Antennas and Grounding kit
- Data/Fax Modem
- CW Key & Headphones
- Encryption Voice/Data



RS232 Remote Contol Interface

Pre-post Selector Interface base

station operation for 500 watt

Linear Amplifier Interface

conversion Transceiver

Phone Patch Interface

Mobat USA

1721WestPaulDiracDr. Tallahassee, Florida 32310 Tel:850 580 0420 · Fax:850 580 2626 marketing@mobatusa.com · www.mobat.com

Mobat

A Tadiran Communications Division 3 Israeli Shimon St., P.O.B 5090, Rishon leZion 75151 Israel Tel: 972 3 9518050 · Fax: 972 3 9527233 marketing@mobat.com · www.mobat.com

This publication is issued to provide general outline information only and does not constitute a representation on behalf of the company. This publication may not be used or reproduced for any purpose other than general acquaintance with the described products and it may be changed by the company without notice

- Data/Fax Modem Interface
- Multinet (For A.L.E)
- Micom-Link Interface
- 24 VDC Operation
- Rss for PC (Radio and ALE)
- High (0.1 PPM) Frequency stability