

849 NW STATE ROAD 45 NEWBERRY, FL 32669 USA

PH: 888.472.2424 OR

352.472.5500

FAX: 352.472.2030

EMAIL: lnfo@timcoengr.com
http://www.timcoengr.com

RF Exposure Evaluation Report

APPLICANT	YAESU MUSEN CO., LTD.			
	TENNOZU PARKSIDE BUILDING			
	2-5-8 HIGASHI-SHINAGAWA,			
	SHINAGAWA-KU, TOKYO 140-0002 JAPAN			
FCC ID	K6630593X3D			
MODEL NUMBER	GX6000			
PRODUCT DESCRIPTION	MORILE MARINE TRANSCEIVER			
STANDARD APPLIED	CFR 47 Part 2.1091			
PREPARED BY	Cory Leverett			

We, TIMCO ENGINEERING, INC. would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and meets the requirements.

The attached report shall not be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.



GENERAL REMARKS

Attestations

This equipment has been evaluated in accordance with the standards identified in this report. To the best of my knowledge and belief, these evaluations were performed using the procedures described in this report.

I attest that the necessary evaluations were made, under my supervision, at:

Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669



Authorized Signatory Name:

Cory Leverett

Engineering Project Manager

Date: August 29, 2016

Applicant: YAESU MUSEN CO., LTD.

FCC ID: K6630593X3D

Report: W:\Y\YAESU\1612AUT16\1612AUT16RF EXP MPE RPT REV.DOCX



RF Exposure Requirements

General information

Device type: MOBILE MARINE TRANSCEIVER

Antenna

The manufacturer does not specify an antenna, but a typical antenna has a gain of 0 dBi.

Configuration	Antenna p/n	Type	Max. Gain (dBi)
Fixed mounted	Any	omni	3

Operating configuration and exposure conditions:

The conducted output power is shown in the table below. Typical use qualifies for a maximum duty cycle factor of 100%.

MPE Calculation:

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power density: $P_d(mW/cm^2) = \frac{E^2}{3770}$

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.11310, Table 1.

Applicant: YAESU MUSEN CO., LTD.

FCC ID: K6630593X3D

Report: W:\Y\YAESU\1612AUT16\1612AUT16RF EXP MPE RPT REV.DOCX



		•		e for Mobile or I		es	
	G	eneral Pop	ulation/U	Incontrolled Exp	osure	î	
Insert value	s in vellow	highlighte	d hoves to	determine Mini	mum Sans	eration Distance	
Max Power	24.6		equals	Max Power	24600		
Duty Cycle	50		equals	Duty Factor		numeric	
Antenna Gain		dBi	equals	Gain numeric	1.995262	ł	
Coax Loss		dB	- 4	Gain - Coax Los			
Power Density		mW/cm ²					
Enter power Density from the chart to the right			Rule Par	Rule Part 1.1310, Table 1 (B)			
Frequency	157.425			Frequency ran Power der Enter this value			
, ,				MHz	mW/cm²		
				0.3-1.34	100	100	
				1.34-30	180/f ²	0.0	
				30-300	0.2	0.2	
				300-1,500	f/1500	0.1	
				1,500-100,000	1	1	
				f = frequency in MHz			
Minimum Separation Distance			99	cm	0.99	m	
	-						
Minimum Seperation in	Inches	38.87469	Inches				

Applicant: YAESU MUSEN CO., LTD. FCC ID: K6630593X3D

W:\Y\YAESU\1612AUT16\1612AUT16RF EXP MPE RPT REV.DOCX Report: