



849 NW STATE ROAD 45
NEWBERRY, FL 32669 USA
PH: 888.472.2424 OR
352.472.5500
FAX: 352.472.2030
EMAIL: INFO@TIMCOENGR.COM
[HTTP://WWW.TIMCOENGR.COM](http://WWW.TIMCOENGR.COM)

RF Exposure Evaluation Report

APPLICANT	NAVICO RBU ITALIA S.R.L.
	VIA ROMITA 26 50025 MONTAGNANA V.P. MONTEPERTOLI (FI) ITALY
FCC ID	2AJJ3SRTLAN12U6X
IC	21849-SRTLAN12U6X
MODEL NUMBER	12 KW SRT X-BAND LAN TRANSCEIVER
PRODUCT DESCRIPTION	12 kw X-BAND RADAR SYSTEM
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	Christian Pawlak

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.

Applicant: NAVICO RBU ITALIA S.R.L.
FCC ID: 2AJJ3SRTLAN12U6X
IC: 21849-SRTLAN12U6X
Report: V:\N\NAVICO RBU ITALIA\1664AUT16\1664AUT16RF EXP MPE RPT.DOCX

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:

Christian Pawlak

Engineering Project Manager

Date: 11/30/2016

Applicant: NAVICO RBU ITALIA S.R.L.

FCC ID: 2AJJ3SRTLAN12U6X

IC: 21849-SRTLAN12U6X

Report: V:\N\NAVICO RBU ITALIA\1664AUT16\1664AUT16RF EXP MPE RPT.DOCX

RF Exposure Requirements

General information

Device type: 12 kw X-BAND RADAR SYSTEM

Antenna

Configuration	Antenna p/n	Type	Max. Gain (dBi)
6' X Band antenna	Any	X band	29 dB

MPE Calculation:

The minimum separation distance is calculated as follows:

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

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

Applicant: NAVICO RBU ITALIA S.R.L.

FCC ID: 2AJJ3SRTLAN12U6X

IC: 21849-SRTLAN12U6X

Report: V:\N\NAVICO RBU ITALIA\1664AUT16\1664AUT16RF EXP MPE RPT.DOCX

Insert values in yellow highlighted boxes to determine Minimum Separation Distance																										
Max Power	6.17	W	<i>equals</i>	Max Power	6170 mW																					
Duty Cycle	100	%	<i>equals</i>	Duty Factor	1 numeric																					
Antenna Gain	29	dBi	<i>equals</i>	Gain numeric	794.3282 numeric																					
Coax Loss	0	dB		Gain - Coax Loss	794.3282 numeric																					
Power Density	1	mW/cm ²																								
			<p>Enter power Density from the chart to the right</p>																							
Frequency	9500	MHz		<p>Rule Part 1.1310, Table 1 (B)</p> <table border="1"> <thead> <tr> <th>Frequency range</th> <th>Power density</th> <th>Enter this value</th> </tr> <tr> <th>MHz</th> <th>mW/cm²</th> <th>mW/cm²</th> </tr> </thead> <tbody> <tr> <td>0.3-1.34</td> <td>100</td> <td>100</td> </tr> <tr> <td>1.34-30</td> <td>180/f²</td> <td>0.0</td> </tr> <tr> <td>30-300</td> <td>0.2</td> <td>0.2</td> </tr> <tr> <td>300-1,500</td> <td>f/1500</td> <td>6.3</td> </tr> <tr> <td>1,500-100,000</td> <td>1</td> <td>1</td> </tr> </tbody> </table> <p>f = frequency in MHz</p>		Frequency range	Power density	Enter this value	MHz	mW/cm ²	mW/cm ²	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	6.3	1,500-100,000	1	1
Frequency range	Power density	Enter this value																								
MHz	mW/cm ²	mW/cm ²																								
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	6.3																								
1,500-100,000	1	1																								
Minimum Separation Distance			625 cm		6.25 m																					
Minimum Separation in Inches		245.6812 Inches																								

Applicant: NAVICO RBU ITALIA S.R.L.

FCC ID: 2AJJ3SRTLAN12U6X

IC: 21849-SRTLAN12U6X

Report: V:\N\NAVICO RBU ITALIA\1664AUT16\1664AUT16RF EXP MPE RPT.DOCX