



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	PANDUIT CORP.
	1819 ATLANTA HWY CUMMING GA 30040
FCC ID	2ABED-1167
MODEL NUMBER	1167
PRODUCT DESCRIPTION	WIRELESS MESH GATEWAY
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	Tim Royer

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:

Tim Royer, Engineer

Date: 12/12/2017

Applicant: PANDUIT CORP.
FCC ID: 2ABED-1167
Report: 2090AUT17RF Exp MPE Rpt.docx

RF Exposure Requirements

General information

Device type: WIRELESS MESH GATEWAY

Antenna

Configuration	Antenna p/n	Type	Max. Gain (dBi)
Fixed mounted	Any	Dipole	2

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 1.1310, Table 1.

KDB 447498 D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

100 MHz to 6 GHz at separation distance less than or equal to 50 mm

SAR Test Exclusion Calculator for Portable Devices

Insert values in yellow highlighted boxes to determine SAR Exclusion

Max Power **1** mW

Min Separ **5** mm

Frequency **2.405** GHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Answer 0.3 Must be less than or equal to 3.0 for SAR Exclusion

KDB 388624 D02 Permit But Ask List v15, Item II. A. 5.

PBA is required if:

General Population: The Answer is equal to or greater than 24 (8x threshold)

Controlled Use: The Answer is equal to or greater than 60 (20x threshold)

and, when published RF exposure KDB procedures are not established for SAR testing or when SAR

Please also note the following: [FCC KDB quote] These test exclusion conditions are based on source-based time-averaged

Applicant: PANDUIT CORP.

FCC ID: 2ABED-1167

Report: 2090AUT17RF Exp MPE Rpt.docx