Company: Actiontec Electronics Inc

Evaluation of; T3200M

To: FCC CFR 47 Part 15 RF Exposure requirements

Report No.: ATEC14-2 MPE

MPE TEST REPORT





Evaluation of: Actiontec Electronics Inc T3200M

to

To: FCC CFR 47 Part 15 RF Exposure requirements

Test Report Serial No.: ATEC14-2 MPE

This report supersedes: NONE

Applicant: Actiontec Electronics Inc 760 N Mary Avenue Sunnyvale, California 94085 USA

Product Function: 802.11ac Bonded VDSL2 Modem Gateway with MoCA2.0

Issue Date: 5th April 2016

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA Phone: +1 (925) 462-0304 Fax: +1 (925) 462-0306 www.micomlabs.com



MiCOM Labs is an ISO 17025 Accredited Testing Laboratory



1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm²) = EIRP/(4* π *d²) EIRP = P * G P = Peak output power (mW) G = Antenna numeric gain (numeric) d = Separation distance (cm) Numeric Gain = 10 ^ (G (dBi)/10)

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm^2

The calculations in the table below use the highest conducted power values together with the lowest antenna gain specified for the EUT. These calculations represent worst case in terms of the exposure levels.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm ²	Calculated Power Density @ 20cm	Minimum Separation Distance (cm)
5725.0 - 5850.0	4.43	2.77	29.42	875.56	13.90	0.48	20.00
5150.0 - 5250.0	3.40	2.19	29.15	821.48	11.96	0.36	20.00
2400.0 - 2483.5	3.00	2.00	29.33	857.50	11.67	0.34	20.00
5250.0 - 5350.0	4.46	2.79	23.88	244.61	7.37	0.14	20.00
5470.0 - 5725.0	4.40	2.75	23.71	234.73	7.17	0.13	20.00

Assessment for simultaneous operation in 2.4 GHz and 5 GHz bands

The Actiontec M6240V can transmit simultaneously in the 2.4 GHz and 5 GHz bands. The following assessment is based on simultaneous operation in the 2.4 GHz and 5 GHz bands.

Freq. Band (MHz)	Antenna Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm2 Limit(cm)	Minimum Separation Distance (cm)
2400.0 - 2483.5	3.00	2.00	29.33	857.50	11.67	20
5725.0 - 5850.0	4.43	2.77	29.42	875.56	13.90	20
			EIRP	Total		
			4140.3	mW	18.15	20.0

Note: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



Specification Maximum Permissible Exposure Limits

FCC §1.1310 Limit = 1mW / cm² from 1.310 Table 1

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



575 Boulder Court Pleasanton, California 94566, USA Tel: +1 (925) 462 0304 Fax: +1 (925) 462 0306 www.micomlabs.com