

RF Exposure Report

Project Number: 4323472

Report Number: 4323472EMC02 **Revision Level:** 1

Client: Continental Automotive Systems, Inc.

Equipment Under Test: Wireless Modem Module

Model: BL28EU-001

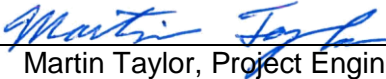
FCC ID: LHJ-BL28EU001

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498
FCC OET Bulletin 65 Supplement

Report issued on: 12 October 2018

Test Result: Compliant

Tested by:



Martin Taylor, Project Engineer

Reviewed by:



David Schramm, Operations Manager

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 Client Information

Name: Continental Automotive System, Inc.
Address: 21440 West Lake Cook Road
City, State, Zip, Country: Deer Park, IL 60010, USA

1.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

1.3 General Information of EUT

Type of Product: Wireless Modem Module
Model Number: BL28EU-001
Serial Number: ADN171019008053
FCC ID: LHJ- BL28EU001

IMEI Number: 352375090008053

Rated Voltage: 10.2 – 13.8 Vdc
Test Voltage: 12 Vdc

Tx Frequency Range: 2500 – 2570 MHz (LTE Band 7)

FCC Classification: PCS Licensed Transmitter PCB
Type: Pre-Production

Sample Received Date: 13 June 2018

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum power including the maximum tolerance was considered.

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum power (including tune-up tolerances), the power density was calculated. Since the device was not provided with antennas, the maximum antenna gain was calculated that still complied with the limits at a 20cm distance.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density $EIRP_{Avg}/(4\pi R^2)$ mW	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
LTE Band 7	2500-2570	25.0	8.0	0.0	33.0	1995	20	0.397	1.00	40%	Pass

Simultaneous transmissions are not possible with the BL28EU-001 module.

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	28 August 2018
1	Changed antenna gain from 12 to 8 dBi to meet EIRP limit	12 October 2018