

RF Exposure Report

Project Number: 4227659

Report Number: 4227659EMC05

Revision Level: 0

Client: Technicolor Connected Home USA LLC

Equipment Under Test: Channel Master Android TV

Model: CM-7600

FCC ID: G95-CM-7600

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

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: Technicolor Connected Home USA LLC
Address: 5030 Sugarloaf Parkway Building 6
City, State, Zip, Country: Lawrenceville, GA 30044, 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

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

1.3 General Information of EUT

Type of Product: Channel Master Android TV
Model Number: CM-7600
Serial Number: 211930007386700018

Frequency Range (BT/BLE): 2402-2480MHz
Frequency Range (2.4G WLAN): 2412-2462MHz
Frequency Range (5G RLAN): 5150 to 5250 MHz, 5250-5350 MHz, 5470-5725 MHz, 5725-5850 MHz

Antenna: 2x Internal PCB Trace, Cross-Polarized
#1 3.5 / 5.6 dBi Max Gain (2.4G / 5G)
#2 2.4 / 5.4 dBi Max Gain (2.4G / 5G)

Rated Voltage: 12Vdc (Supplied via 100-120Vac, 60Hz AC Adapter)
Test Voltage: 12Vdc, (120Vac, 60Hz)

Sample Received Date: 30 October 2017
Dates of testing: 08 November - 27 December 2017

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum measured conducted power and ERP/EIRP were 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 measured conducted power and ERP/EIRP with provided antenna gains, the power density was calculated.

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} /(4πR ²) mW	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
WLAN 2.4	2400-2483.5	17.3	3.5	0.0	20.8	120	20	0.024	1.00	2%	Pass
WLAN 5 GHz (UNII-1)	5150-5250	16.1	5.6	0.0	21.7	148	20	0.029	1.00	3%	Pass
WLAN 5.8 GHz (UNII-2)	5250-5710	16.2	5.6	0.0	21.8	151	20	0.030	1.00	3%	Pass
WLAN 5.8 GHz (UNII-3)	5725-5850	16.8	5.6	0.0	22.4	174	20	0.035	1.00	3%	Pass
Bluetooth	2400-2483.5	3.7	2.6	0.0	6.3	4	20	0.001	1.00	0%	Pass

2.4 Simultaneous transmission RF Exposure Levels

	WLAN 2.4	WLAN 5 GHz (UNII-1)	WLAN 5.8 GHz (UNII-2)	WLAN 5.8 GHz (UNII-3)	Bluetooth
WLAN 2.4		5%	5%	6%	2%
WLAN 5 GHz (UNII-1)	5%				3%
WLAN 5.8 GHz (UNII-2)	5%				3%
WLAN 5.8 GHz (UNII-3)	6%				4%
Bluetooth	2%	3%	3%	4%	

Expressed as a percentage of the limit. Color is only used to identify worst-case.