RF EXPOSURE EVALUATION REPORT
FROM
UL

For: Cisco Systems Inc.

Product: Cisco Desk Pro G2

Contains FCC ID: LDKXV2EA2797

RF Exposure Evaluation Report Serial No.:
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This RF Exposure Evaluation Report Is Issued Under The Authority Of Andrew Hoare, Head of Certification: **pp**	
Written By: Ernest Cheung	**Checked By: Marc Schmidt**
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UL International (UK) Ltd
Unit 1-3, Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, UK
T: +44 (0)1256 312000 W: www.ul.com

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1. Client Information

Company Name:	Cisco Systems Inc.
Address:	170 West Tasman Drive San Jose California United States CA 95134
Contact Name:	Geir Isaksen

2. Description Of The Apparatus And Its Operational Environment

Brand Name:	Cisco
Model / Type Reference:	TTC7-29
Basic Direct Function:	Desktop collaboration unit
Intended Operating Environment:	Donestic / Commercial

The Cisco Desk Pro G2 operates in the 2.4 GHz, 5GHz and 6 GHz frequency bands using WLAN 802.11 a/b/g/n/ax/ac with MIMO. Also, with BT/BLE.

The Cisco Desk Pro G2 uses integrated certified modules:

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3. Equipment Specifications

Equipment Category:	BT/BLE, 2.4GHz IEEE 802.11b/g/n/ax, 5GHz IEEE 802.11a/n/ac/ax, 6GHz IEEE 802.11a/ax
Type of Unit:	Mobile device
Operating Frequency Range:	
BT/BLE	2402 – 2480MHz
2.4GHz WLAN	2412 – 2462MHz
5GHz WLAN	5180 – 5240MHz, 5260 – 5320MHz, 5500 – 5720MHz, 5745 – 5825MHz
6GHz WLAN	5955 – 7095 MHz
RF Output Power (max. dBm):	
WLAN 2.4GHz	20.0
WLAN 5GHz	18.0
WLAN 6GHz	14.0
BT / BLE	10.5
Antenna Gain (max. peak values dBi):	
WLAN 2.4 GHz	+4.2 (SISO), +6.41 (MIMO)
WLAN 5 GHz	+5.0 (SISO), +3.59 (MIMO)
WLAN 6 GHz	+5.0 (SISO), +4.65 (MIMO)
BT / BLE	+2.5

Note: Specification values have been supplied by the manufacturer. SISO mode and MIMO mode have been investigated. The maximum power, maximum antenna gain and the worst mode (SISO) will be used in the calculations, as these will show the worst case.

The following are the nine simultaneous scenarios

1/. Antenna 0 (WLAN 2.4G) + Antenna 1 (WLAN 2.4G)

2/. Antenna 0 (WLAN 5GHz) + Antenna 1 (WLAN 5GHz)

3/. Antenna 0 (WLAN 6GHz) + Antenna 1 (WLAN 6GHz)

4/. Antenna 0 (WLAN 2.4G) + Antenna BT_ANT (BT/BLE)

5/. Antenna 0 (WLAN 5GHz) + Antenna BT_ANT (BT/BLE)

6/. Antenna 0 (WLAN 6GHz) + Antenna BT_ANT (BT/BLE)

7/. Antenna 0 (WLAN 2.4G) + Antenna 1 (WLAN 2.4G) + Antenna BT_ANT (BT/BLE)

8/. Antenna 0 (WLAN 5GHz) + Antenna 1 (WLAN 5GHz) + Antenna BT_ANT (BT/BLE)

9/. Antenna 0 (WLAN 6GHz) + Antenna 1 (WLAN 6GHz) + Antenna BT_ANT (BT/BLE)

The 7th simultaneous configuration presents the worst-case scenario. This is the simultaneous scenario that will be investigated.

4. Methods and Procedures

Reference:	KDB 447498 D01 v06
Title:	RF Exposure Procedures and Equipment Authorisation Policies for Mobile and Portable Devices
Reference:	FCC §1.1310
Title:	Radiofrequency radiation exposure limits

5. Calculations

5.1 MPE

The MPE calculation to calculate the safe operating distance for the user is.

$$S = EIRP/4 \pi R^2$$

Where S = Power density

EIRP = Effective Isotropic Radiated Power (EIRP = P x G)

P = Conducted Transmitter Power

G = Antenna Gain (relative to an isotropic radiator)

R = distance to the centre of radiation of the antenna (safe operating distance)

Power Density Requirement

From table 1 (ii) - Limits for General Population/ Uncontrolled Exposure of FCC §1.1310 (1)(e) **for f >1500MHz** , $\mathbf{S_{req1} = 1.0\ mW/cm^2}$

From table 1 (ii) - Limits for General Population/ Uncontrolled Exposure of FCC §1.1310 (1)(e) **for f = 300 - 1500MHz**, $\mathbf{S_{req2} = f/1500\ mW/cm^2}$

(f = operating frequency)
Note: the worst-case limit has been used for all Cellular bands

VALUES

Frequency Range (MHz)	Operating Band	TX Conducted Power Average (dBm)	Antenna Gain (dBi)	EIRP (mW)	Calculated Distance R @ S_{req} (cm)	Power Density S mw/ cm^2		
						Limit S_{req}	Calculated S_n @ 20cm	S_n/S_{req}
2402 - 2480	BT/BLE	10.5	2.5	20.0	1.3	1.00	0.004	0.004
2412 - 2462	WLAN	20.0	4.2	263	4.6	1.00	0.052	0.052
5180 - 5825	WLAN	18.0	5.0	200	4.0	1.00	0.040	0.040
5955 - 7095	WLAN	14.0	5.0	79.4	2.5	1.00	0.016	0.016

NOTE 1: Lowest frequency used as this gives the worst-case limit value.

5.2 KDB447498 D01 v06 Section 7.2 SIMULTANEOUS TRANSMISSION CONSIDERATIONS

For worst case (Antenna 0 (WLAN 2.4G) + Antenna 1 (WLAN 2.4G) + Antenna BT_ANT (BT/BLE)) :

As per KDB, summation of calculated MPE ratios (worst case):

$$\Sigma MPE_{ratios} = (S_1/ S_{req1}) + (S_2/ S_{req2}) + (S_2/ S_{req2})$$

$$= 0.004 + 0.052 + 0.052$$

$$= \mathbf{0.108}$$

Σ of MPE ratios<1.0, so in accordance with KDB447498 D01 V06 Section 7.2, simultaneous transmission test exclusion applies for the transmitters.

6. Conclusion

The required 20cm RF exposure limits for General Population/ Uncontrolled Exposure will not be exceeded for the Cisco Desk Pro G2.