

RF Exposure Evaluation Report

Product : BE3600 Dual-band 2.5G Ceiling
Access Point
Trade mark : Tenda
Model/Type reference : i33
Report Number : EED32S81414402
FCC ID : V7TI33
Date of Issue : September 22, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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2 General Information

2.1 Client Information

Applicant:	Shenzhen Tenda Technology Co., Ltd.
Address of Applicant:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Manufacturer:	Shenzhen Tenda Technology Co., Ltd.
Address of Manufacturer:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

2.2 General Description of EUT

Product Name:	BE3600 Dual-band 2.5G Ceiling Access Point
Model No.:	i33
Test Model No.:	i33
Trade Mark:	Tenda

2.3 Product Specification subjective to this standard

Frequency Range:	2.4G Wi-Fi: IEEE 802.11b/g/n(HT20)/ax(HE20)/be(EHT20): 2412MHz to 2462MHz IEEE 802.11n(HT40)/ax(HE40)/be(EHT40): 2422MHz to 2452MHz 5G Wi-Fi: U-NII-1 & U-NII-2A: 5150-5350MHz U-NII-3:5745-5825MHz
Modulation Type:	2.4G Wi-Fi: IEEE for 802.11b:DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE for 802.11ax(HE20 and HE40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11be(HE20 and HE40): OFDMA (4096QAM, 1024QAM, 64QAM, 16QAM, QPSK, BPSK) 5G Wi-Fi: IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40/VHT80/VHT160): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) IEEE 802.11ax(HE20/HE40/HE80/HE160): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM) IEEE 802.11be(EHT20/EHT40/EHT80/EHT160): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM, 4096QAM)
Test Power Grade:	Default
Test Software of EUT:	QATool_Dbg.exe
Antenna Type:	PCB Antenna
Antenna Gain:	2.4G Wi-Fi: Antenna 1:4.80dBi Antenna 2:4.34dBi 5G Wi-Fi:

	Antenna 1:5.11dBi Antenna 2:4.89dBi Antenna 3:5.26dBi	
Power Supply:	Adapter:	Input:AC 100-240V 50/60Hz 1A Output:48.0Vdc 0.8A
Sample Received Date:	Jun. 29, 2026	
Sample tested Date:	Jun. 29, 2026 to Sep. 21, 2026	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@2.4G Wi-Fi	20	22.34	4.80	24.99	315.50	3060.00	0.1031	Pass
@5G Wi-Fi	20	26.24	5.26	29.35	860.99	3060.00	0.2814	Pass

Note:

① EIRP=conducted power+antenna gain;

② ERP=EIRP-2.15;

③ EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;

④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;

⑤ The estimation distance is 20cm;

⑥ The test data please refer to the report of EED32S814143, EED32S81414401 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (2.4G Wi-Fi+5G Wi-Fi)=0.1031+0.2814 =0.3845 < 1, it's deemed to fulfil the RF exposure requirement.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***