

Guide to Bluetooth™ Certification in Indonesia

Certification in Indonesia

Certificate of approval is required for every telecommunication and ITE equipment entering Indonesian territory. The certificate of approval is issued by Directorate General of Resources and Equipment Standardization for Post and Informatics (SDPPI). Certifications are granted at the system (host) level. The certificate is valid for each type or model number of equipment while product or model series certificate or type approval is not acceptable.

In-Country Testing

In-Country testing is required prior to certificate issuance by SDPPI. RF / Telecom Test is mandatory while EMC and safety is voluntary. The test will require 2 (two) samples of equipment and it will be conducted by local laboratories which appointed by SDPPI.

Applicable Standards in Indonesia

Bluetooth approval test will be based on national standards: KEPDIRJEN No. 09/DIRJEN/2004. The national standards are mainly adopted from Bluetooth Qualification Body (BQB). The key parameters are as follows:

- Frequency allocation: 2.4 – 2.4835 GHz
- Output Power:

Power Class	Maximum Output Power	Nominal Output Power	Minimum Output Power	Power Control
1	100 mW (20 dBm)	N/A	1 mW (0 dBm)	4 to +20 dBm -30 to 0 dBm Optional
2	2.5 mW (4 dBm)	1 mW (0 dBm)	0.25 mW (-6 dBm)	-30 to 0 dBm Optional
3	1 mW (0 dBm)	N/A	N/A	-30 to 0 dBm Optional

- Spread spectrum: FHSS or DSSS
- Effective Radiated Power: ≤ -10 dBW (100 mW) EIRP
- Modulation Characteristic:
 - GFSK
 - Index modulation= $0.32 \pm 1\%$
 - Bitrate= 1 Mbps ± 1 ppm
 - Data modulation= PRBS9

- Spurious Emission

Frequency Range	Operation		Standby	
	In 100 kHz	In 1 MHz	In 100 kHz	In 1 MHz
1 GHz – 12.75 GHz	N/A	-30 dBm (1 μ M)	N/A	-47 dBm (20 nW)

Documentations Requirements

1. Completed Application Forms: Application Form (FR.PM.5), Inspection Form (FR.PM.4), Power of Attorney to *TEKNOKRAT* Indonesia
2. Technical Constructive File: General information, Installation guide, User manual, BOM, Hardware description, Block diagram, Assembly Top/Bottom, Conducted test report (RF / Telecom and EMC & Safety test)
3. Copy of Certificates of Compliance (from other country)

TEKNOKRAT's services have been specifically designed to support manufacturers, test laboratories and consultants seeking type approval in Indonesia for telecommunications equipment and other ITE. The world's leading telecommunications equipment vendors already recognize the value in our service and entrust their approvals in Indonesia to us. We would be delighted to have the opportunity to support your telecom approvals.

for further information please contact: customer@typeapproval.or.id