

Guide to GSM Terminal 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

Approval test will be based on national standards: KEPDIRJEN No. 370/DIRJEN/2010. The key parameters are as follows:

- GENERAL REQUIREMENT

Channel Spacing	200 KHz
Amount of Channels	1<n<124 Channels (PGSM) 512≤n≤885 Channels (DCS)
Duplex of Separation	45 MHz (PGSM) 95 MHz (DCS)
Type of Modulation	TDMA
Impedance	50 Ohm

- TRANSMITTER

Power Output	Class 1: n.a (PGSM) ; 1 Watt (DCS) Class 2: 8 Watt (PGSM) ; 0.25 Watt (DCS) Class 3: 5 Watt (PGSM) ; 2 Watt (DCS) Class 4: 2 Watt (PGSM) ; n.a (DCS) Class 5: 0.8 Watt (PGSM) ; n.a (DCS)
Frequency Band	890 – 915 MHz (PGSM) 1710 – 1785 MHz (DCS)
Frequency Stability	± 0.05 ppm

Spurious Emission	< 600 kHz = -36 dBm ≥ 600 kHz, <1800 kHz = -56 dBm ≥ 1800 kHz = -51dBm
Frequency Deviation	≤ 12 kHz

- RECEIVER

RF Level	- 102 dBm
Frequency Band	935 – 960 MHz (PGSM) 1805 – 1900 MHz (DCS)
Bit Error Rate (100 kbits)	2%
Sensitivity	≤ 0.5 μV
Selectivity	≥ 70 dB
Stability	± 5 ppm
Spurious Response	≥ 70 dB

- VOICE CHANNEL

Frequency Response	-1 – 3 dB 6 dB Octave 0.3 – 3 kHz
Bit rate	13 kbps
Bit rate with FAC encoding	22.8 kbps

- CONTROL CHANNEL

Modulation	GMSK
Deviation	± 8 kHz
Transmission Rate	10 kbit/s

- FEATURES REQUIREMENT

GSM terminal shall utilize ESN as security code means (IMEI format as regulated in 3GPP TS 23.003) and shall be able to conduct roaming features

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