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## Allowable Modem HSDPA Device in Indonesia

Based on the PERDIRJEN POSTEL Number: 233/DIRJEN/2009

### Requirements

#### 1. Technology Specification/Band

HSDPA/HSUPA : Uplink Frequency 1920-1980 MHz  
Downlink Frequency 2110-2170 MHz

It should be possible for multiband and serve GPRS / EDGE / UMTS

#### 2. Data Speed

- a. HSDPA maximal uplink speed : 384 Kbps
- HSUPA maximal uplink speed : 2.1 Mbps
- b. HSDPA/HSUPA maximal downlink speed : 14.4 Mbps/7.2 Mbps/3.6 Mbps/1.8 Mbps/1.2 Mbps

#### 3. Power Class

Operating Band	Power Class 1		Power Class 2		Power Class 3		Power Class 3bis		Power Class 5	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
Band 1	+33	+1/-3	+27	+1/-3	+24	+1/-3	23	+2/-2	+21	+2/-2

#### 4. Adaptive Modulation and Coding

QPSK and 16-QAM is mandatory



5. User Data Multiplexing  
TDM/CDM
6. Feedback Channel  
Channel quality reported at 2 ms rate or 500 Hz
7. External User Interface  
At least have one of the following user interface:
  - a. USB2.0 interface
  - b. PCMCIA
  - c. Express Card
  - d. RJ-45 Interface
8. Power Consumption  
Voltage 5V DC

## **Environmental Requirements**

1. Operating Temperature  
-20°C until +50°C
2. Storage Temperature  
-40° until +80°C
3. Humidity  
95% humidity, non condensing

## **Service Requirements**

1. Visual Indicator  
It is required to have visual indicator for the network status.
2. Minimum System Requirements
  - a. OS (Operating System) Windows®2000/Vista/ 32 bit & 64 bit
  - b. Connection Port USB
  - c. Minimum Processor (CPU) 667 MHz or faster
  - d. Auto Installation
  - e. Memory 128 MB
  - f. Disk Space 100 MB
  - g. Disk Drive CD-ROM (optional)



### 3. Standards/Approvals/Certification

HSDPA modem should own one of these following international certifications:

- a. 3GPP Release 99 for GSM/GPRS
- b. 3GPP Release 5 for HSDPA
- c. GCF
- d. GSM Phase 2+
- e. Microsoft WHQL
- f. IOT Compliance
- g. R&TTE Directive 1999/5/EC (health, safety, EMC, Spectrum) Compliant
- h. RoHS Directive 2002/95/EC Compliant
- i. WEEE Directive 2002/96/EC Compliant

