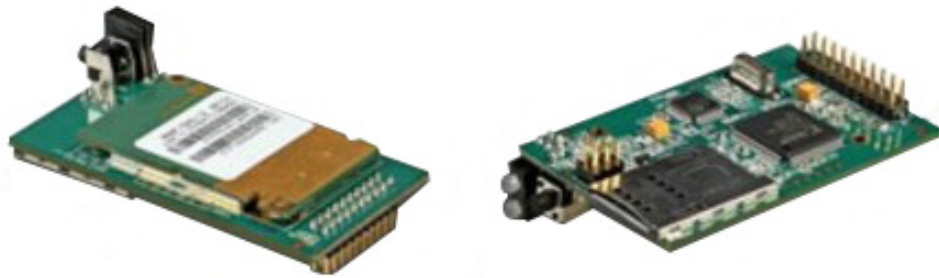


## DATASHEET GSM

### Datasheet DW-SOHO-M-1GSM



Designed with DW-SOHO-M-1GSM for global market. DW-SOHO-M-1GSM compatible with DW-SOHO-H-20, is a quad-band GSM engine that works on frequencies GSM 850MHz, EGSM 900 MHz, DCS 1800 MHz and PCS 1900MHz. The DW-SOHO-M-1GSM can search the 4 frequency bands automatically, and is compliant to GSM OpenBTS Phase 2/2+.

## DW-SH-GSM FEATURES

Feature	Reference
Power supply	Single supply voltage 3.8V - 4.5V
External power supply required	NO
Power saving	Power consumption in SLEEP mode is 1.5mA
GSM class	SIM Card v3
Frequency Bands	850MHz, 900 MHz, 1800 MHz and 1900MHz.
Supported protocols	Voice (2G)
Temperature range	Normal operation: -25-+70 degrees Centigrade
External antenna	Connected via 50antenna connector
Audio features	Speech codec modes: Half Rate (ETS 06.20) Full Rate (ETS 06.10) Enhanced Full Rate (ETS 06.50 / 06.60 / 06.80) AMR Echo Cancellation Noise reduction
Certifications	CE FCC RoHS ISO 9001

## MODULE RF INDICATORS

### RF output power of DW-SOHO-M-1GSM

Frequency	Max	Frequency
GSM850/900	33dBm ±2dB	5dBm±5dB
DCS1800/ PCS1900	30dBm ±2dB	0dBm±5dB

### RF receive sensitivity of DW-SOHO-M-1GSM

Frequency	Frequency
GSM850/900	< -105dBm
DCS1800/PCS1900	< -105dBm

### Module receive/transmit frequency

Frequency	Receive	Transmit
GSM 850 MHz	869 ~ 894 MHz	824 ~ 849 MHz
GSM 900 MHz	925 ~ 960 MHz	880 ~ 915MHz
DCS 1800 MHz	1805 ~ 1880 MHz	1710 ~ 1785MHz
PCS 1900 MHz	1930 ~ 1990 MHz	1850 ~ 1910MHz

### Connection for system GSM

Each module has two LED(Light-Emitting Diodes), which is integrated on the module.

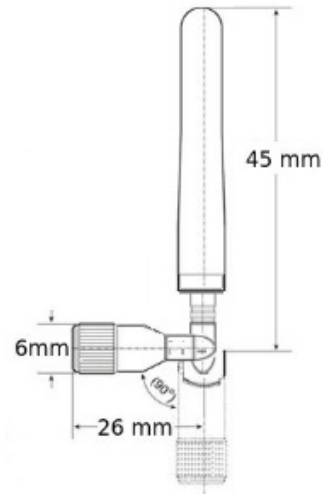
The Red LED indicates port status:

SYNC= Module sincronign with the operator

STA= Channel Ringing

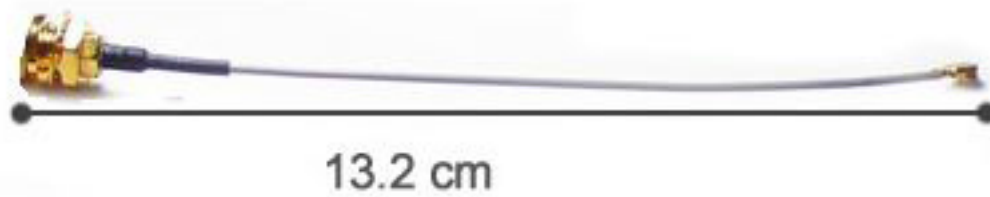
Each module has one button “ONKEY” to restart the module without restart the SOHO

Antenna



Feature	Reference
Frecuenty	824-880/890-960/1850-1990/1710-2170/2400-2483
VSWR	2
Gain	3 dBi
Impedance ( )	50
Polarization	Linear polarization
Connector	SMA plug
Length	5 mm
Color	Black
Temperature range	- 45° c a +75° c

## Antenna Coaxial Wire



Designed to be mounted separately between the module and Antenna, the antenna coaxial wire offers a respectable 2.2 dBi gain at 900 MHz and 3.8 dBi at 2000 MHz

## Normative

Directive 1999/5/CE

Directives 2002/95/CE and 2002/96/CE

ETSI EN 301511 (System GSM)

ETSI EN 301489-1/-7 (Compatibility electromagnetic and radio spectrum)

EN 60950-1, EN 60215 (Security)