

Industrial USB Cellular Modem

Introduction

Homtecs USB Cellular Modem is the industrial cellular modem that provides SMS and dial-up function by 3G/4G Cellular network cater for industrial application requirement. The configuration and controlling can be made using AT-commands.

It supports up to 150Mbps downlink speed and 50Mbps uplink speed service can utilize the 4G/3G network for convenient and inexpensive data transfer from remote instruments, meters, computers or control systems in packet data. Due to the performance industrial module, robust metal case and a wide operating temperature range, this model is well suitable for industrial M2M/lot applications.

It can be used in finance, postal, smart power grids, smart transportation, environment monitor, fire protection monitor, security, water conservancy, public safety, advertising release, industrial control, earth quake monitor, meteorological watch, instrument monitor etc.



Features

Industrial design

- High-powered Industrial cellular module provide the strong anti-jamming ability
- PCB comply to 3H and 3W
- Wide range Voltage power supply
- Support standard USB2.0 interface that can plug into industrial PC or end USB device
- Plug & Play solution for quick and easy integration , flexible and reliable
- Control the power on/off by interface control line, easy for user device to control the operation of the modem

Stability

- Support serial I/O hardware reset to ensure always online
- Build-in link detection and hardware watch-dog, support WDT to ensure always online transmission
- UIM/SIM SIM card ESD Protection: 1.8V/3V Standard
- USB Interface ESD protection
- Support over voltage protection
- Robust Metal Case and anti-lightning protection
- Provide IP30 protection

Specification

Wireless

Module:	Industrial wireless module
Frequency band:	FDD-LTE(B 1 / 3 / 5 / 7 / 8 / 20 / 28), (B 1 / 2 / 4 / 5 / 7 / 8 / 12 / 13 / 17 / 25 / 26) TDD-LTE(Band 38 / 39 / 40 / 41) HSPA+/HSPA/WCDMA(850 / 900 AWS / 1900 / 2100MHz) GSMGRPS/EDGE(850 / 900 / 1800 / 1900MHz)

Theory bandwidth:	HSPA: 5.76 / 21Mbps; FDD/TDD LTE: 50 / 150Mbps
Transmit power:	<23dBm+/-1dBm @25°C
Power consumption:	Data mode: <46mA; Idle mode: <25mA
Receive sensitivity:	3G: <-106dBm; 4G: <-97dBm @10MHz QPSK

Interface

USB:	USB 2.0
AT Command:	SMS via AT Command
Indicator light:	2 indicator, "NET", and "PWR"
Antenna interface:	1*SMA antenna interface(4G/3G), 50 Ω
SIM/UIM:	SIM/UIM, Industrial SIM slot, prevent SIM from falling; 1.8V/3V auto detection

Others

Operation system

Windows 9x/ME/NT/2000/XP /Win7/ Linux

Appearance

Casing: Metal, IP 30

Dimension: 72.2x64x25.5mm

Weight: about 150g

Environment

Working temp: -30~+75°C

Storage temp: -40~+85°C

Related humidity: < 95% non-condensing

Product model list

Items	Network	Interface
M4-FAUT	LTE-FDD/LTE-TDD	Full speed USB 2.0(GPIO control WDT)
M3-WAUT	HSPA	Full speed USB 2.0(GPIO control WDT)
M3-E1UT	EVDO	Full speed USB 2.0(GPIO control WDT)