HOMTECS

Industrial Serial Cellular Modem

Introduction

Homtecs Serial 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/Iot 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, 5~32V

Support standard serial RS-232 interface that can plug into industrial PC or end serial 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

Serial RS-232(DB9) Interface ESD protection

Support over voltage protection

Robust Metal Case and anti-lightning protection

Provide IP34 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℃
Power consumption:	Data mode: <46mA; Idle mode: <25mA
Receive sensitivity:	3G: <-106dBm; 4G: <-97dBm @10MHz QPSK

Interface

Serial：	RS-232(300~230400bps Baud rate)
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, IP34

Dimension：70.5x55x22mm

Weight: about 150g

Environment

Working temp: -30~+75℃

Storage temp: -40~+85℃

Related humidity: < 95% non-condensing

Product model list

Items	Network	Interface
M4-FA2T	LTE-FDD/LTE-TDD	RS-232(DTR control WDT)
M3-W12T	HSPA	RS-232(DTR control WDT)
M3-E12T	EVDO	RS-232(DTR control WDT)