H7710
4G Serial Modem
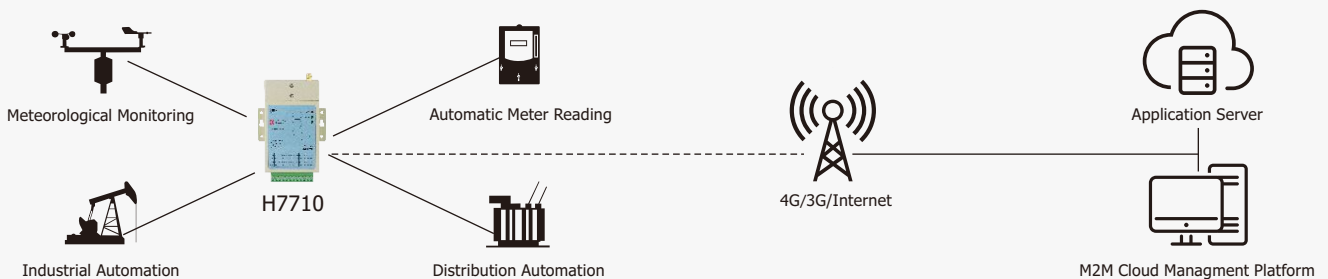
Overview

H7710 4G serial modem is a terminal product based on 4G, compatible 2G/3G data communication network. adopts industrial terminal interface, product design meets the industrial standard, embedded MQTT, TCP/IP and other protocols, helps the transparent data communication from user equipment to data centre.

Features

- Low consumption
- RS-232/RS-485/RS-422/TTL optional
- Easy configuration, Easy management
- Embedded MQTT, TCP/IP
- Modbus TCP, SMS, GPIO, Cloud management
- Industrial design for remote data transmission

Diagram Scheme

Meteorological Monitoring

Automatic Meter Reading

H7710

Industrial Automation

Distribution Automation

4G/3G/Internet

Application Server

M2M Cloud Managment Platform

Specification

Basic Function

- Support standard PPP, TCP/IP and UDP/IP protocol
- Support APN and VPDN private network
- Support automatic heartbeat, maintain permanent online
- Support idle offline and timing offline
- Support baud rate support up to 57600bps

- Support transparent data transmission and protocol conversion
- Support fixed IP or domain as DSC
- Support GPRS/3G/4G signal level LED indication
- Support SMS, phone call, RTU data awaken mode
- Standard 12 PIN terminal blocks

Enhanced Function

- Support Hongdian DDP protocol and provide DDP SDK
- Support managed by AT/SMS/DSC/DTU Tool/M2M Platform/ and etc.
- Support trigger alarm
- Signal/dual main-standby transmission
- Support wide voltage range input

- Support to custom data packet and SMS info
- Support to remote configure/reboot/upgrade/monitor
- Signal/multiple data center transmission
- Optimized EMC design, suitable for severe environment
- Smart power management technology

Network

Cellular	GSM/GPRS/WADMA/UTMS/FDD-LTE/TDD-LTE	LTE FDD	B1/3/5/7/8
Internet Access	APN, VPDN	Authentication	CHAP/PAP/MS-CHAP/MS-CHAPV2
Protocol	TCP/UDP, PPP		

Device Management

Configuration	Serial port, SMS, DDP server Hongdian M2M cloud platform	M2M Cloud Platform	Centralized M2M platform
			Traffic statistics
Upgrade	Local upgrade TFTP upgrade, DDP server upgrade Hongdian Wedora cloud upgrade		Report statistics
			Group management
Reboot	Local, Remote reboot		Alarm by email
Diagnostic	ICMP		Device/Platform log record
Syslog	Local log Operation log record in cloud M2M platform		Batch config/upgrade
			Data usage statistic

Terminal Strip×12 Pin

Serial Port	Optional: RS232/RS485/RS422/TTL (300~115200bps)		
GPIO	GPIO×3	Power	+5 ~ +36V DC
SIM Card Slot	1.8V/3V	Antenna	SMA-K

Channel Mode

Communication Mode	UDP, TCP, DDP+UDP, DDP+TCP, SMS, TCP_Server	Online Mode	SMS/Call/Data to activate a channel

Mechanical

Installation	Wall mounted	Dimension (mm)	112.3×70×22
Housing	Metal	IP Level	IP30
Cooling	Fanless	Weight	About 180g

Power / Environment

Idle	About 25mA@12V DC	Relative Humidity	<95% (Non-condensing)
Normal	About 40mA@12V DC	Storage	-40 ~ 85℃
Peak	About 120mA@12V DC	Working	-30 ~ 70℃

Device Reliability

Impact	IEC60068-2-27	Free Fall	IEC68-2-32
Crash	IEC68-2-29	Vibration	IEC68-2-6, JT/794

Indicators / Certificated and Approved by

LED Indicators	PWR, DATA, NET	CE, FCC, RoHS, IC, UL, EMC, VCCI, MIC, EAC+FSB, ANATEL, RCM, NBTC, PTCRB

Antenna interface

LED Indicators

PWR
DATA
NET

RS-232
RS-485
RS-422
TTL

H7710
4G DTU

www.hongdian.com

Terminal Strip

22mm

70mm

112.3mm

Connecting things

Hongdian