

Product Introduction

- ✧ Caimore Industrial LTE MODEM, CM850, based on LTE network platform, is a SMS and Internet access devices embedded with industrial wireless module. It is of standard industrial design, SMS support PDU and TXT formats, and has the function of sending and receiving Chinese and English and other language text message and accessing to Internet. It provides serial RS232 standard interface to connect directly with the user's computer or industrial control devices.
- ✧ The company provides text messages sending and receiving software for customers to test products, send and receive text messages; also provides Short Message group-sending software, enable customers to send mass messages such as news and greetings; company also offers DLL (dynamic link library), for customers to develop their own message software. The device supports serial I / O hardware reset, to restart at any time. Supports standard AT command.



- ✧ This product has been widely used in industries as water alarm, base station alarm, power meter reading, water meters reading, heating network monitoring, gas monitoring, water monitoring, environmental testing, meteorological monitoring, seismic monitoring, traffic control, etc.

Model No.

Model No.	Interface Type	Network	RS232	English Version
CM850	DB9 Interface	4G	Support	Support

Technical Parameters

Device Interface Diagram



CM850 Accessories



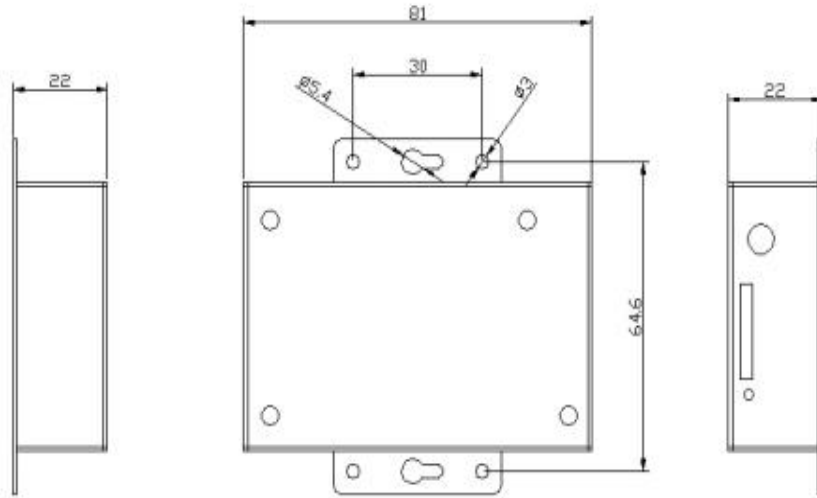
Industrial Design

Industrial wireless module	Using industrial wireless module, with strong anti-interference and stable transmission.
Strengthened circuit board	PCB followed the principles of 20H and 3W, meanwhile all products of circuit boards used high-quality materials to ensure the plate material stable and reliable.
Industrial components	Device components use strictly screened industrial-grade components.

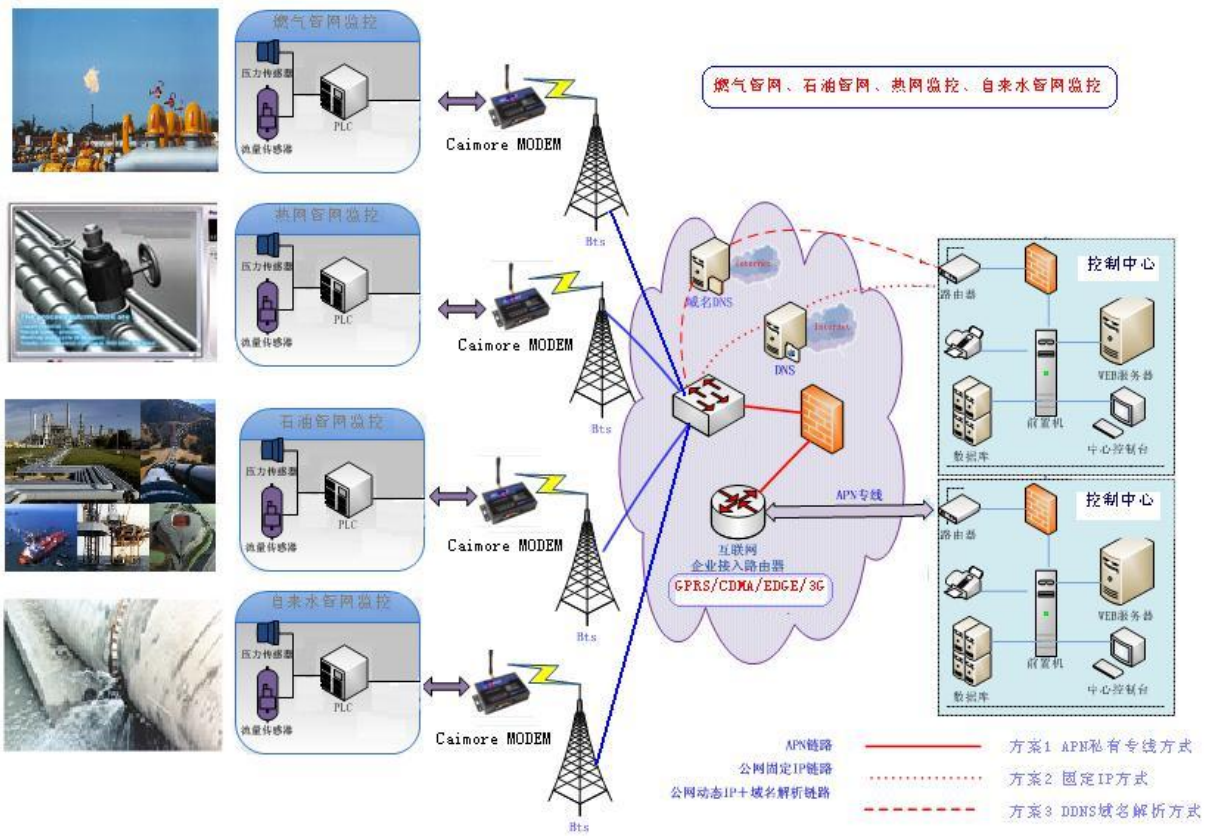
Model NO.	CM850
Cellular Parameters	
Network	LTE-FDD/HSPA+/UMTS/HSDPA/HSUPA/WCDMA/EDGE/GSM
Standards and Frequency Bands	EGSM 900 Power Class 4 2 W, 33 dBm
	GSM 1800 / 1900 Power Class 1 1 W, 30 dBm
	EDGE Power Class for 900MHz Class E21 27 dBm, 0.5 W
	EDGE Power Class for 1800 / 1900MHz Class E21 26 dBm, 0.4 W
	Others. (It depends on area and country.)

Coding Scheme	HSPA+ / DC-HSPA+ / GPRS / EDGE
Communication Bandwidth	100 Mbps DL within 20 MHz bandwidth (Peak DL data rate in 10 MHz bandwidth: 70 Mbps (approx.) for Cat 3 device)
Transmit Power	50 Mbps UL within 20 MHz bandwidth
Receiver Sensitivity	<24dBm
Serial Port Parameters	
Data Bit	7, 8
Stop Bit	1, 2
Parity Bit	No parity, Odd parity, Even parity, SPACE and MARK parity
Serial Speed	110bps ~ 230400bps
Flow Control	None flow control, RTS / CTS hardware flow control or XON / XOFF software flow control
Interface	1*RS232 serial port or 1*RS485 interface (supports RS422/TTL)
Interface	
Indicator	Power / ACT / Online
Antenna Interface	Standard SMA female interface,50ohm; optional 3M/5M/10M/15M antenna extension cable, meet the different needs of customers.
UIM Interface	1.8V/3V/5V standard putter user card interface, built-in 15KV ESD protection.
Voice Interface	Standard headset interface (requires software)
Power Interface	Standard 3-pin power jack.
Power Supply	
Supply Voltage	DC5V to 32V. Over-voltage protection. Power reverse protection.
Standard Power Supply	DC9V/1500mA
Average Communication Current	90mA@+9VDC
Communicating Instantaneous Peak Current	1.0A@+9VDC
Standby Current	<36mA@+ 9VDC
Operation System	
OS	WINDOW / LINUX
Physical Features	
Shell	Metal shell: metal case, anti-radiation, anti-interference; shell and system security isolation, lightning protection design; meet the power requirements of safety regulations; protection rating IP30; particularly suit for harsh industrial control environments.
Product Dimension	81*55*20 mm(Antenna and fixer are not included)
Package Size	298*226*60mm
Weight	0.41kg
Other Parameters	
Operating Temperature	-25°C ~ +65°C
Extended Operating Temperature	-35°C ~ +75°C
Storage Temperature	-40°C ~ +85°C
Relative Humidity	95%(No condensation)

Installation Dimension



Product Application



Typical application

Power Industry

- ◇ Street lamp monitoring
- ◇ Meter monitoring
- ◇ Computer room monitoring
- ◇ Automatic remote control system for power distribution network
- ◇ Remote meter reading

Transportation Industry

- ◇ Traffic instructions
- ◇ Vehicle induction
- ◇ Highway monitoring
- ◇ Traffic light control and photo transmission

Water conservancy industry

- ◇ Water conservancy monitoring
- ◇ Real-time transmission monitoring of water supply network

Environment, meteorology, oil field and other industries

- ◇ Monitoring of key pollution sources
- ◇ Environmental monitoring
- ◇ Weather monitoring
- ◇ Real-time noise monitoring
- ◇ Oilfield monitoring
- ◇ Heat network monitoring
- ◇ Coal monitoring
- ◇ Earthquake monitoring
- ◇ All kinds of PLC with serial port or 485 interface;
- ◇ DTU realizes wireless data transmission

Corporate Qualification

Item	Content
	<p>2011, it was rated as "the best supplier for customer satisfaction in China's industrial control industry"; the company's GPRS DTU product was rated as "innovative product award".</p> <p>2012, the company became a member of "China Quality Travel".</p> <p>2013, the company became a member of the "Technical Innovation Strategic Alliance of Intelligent Power Transmission and Distribution Equipment Industry".</p> <p>2014, it was rated as an innovative pilot enterprise .</p> <p>2014, the company's Zhanjiang Wi-Fi coverage project was awarded the "Sample Engineering Award" by the 13th China Automation Annual Conference.</p> <p>2015, its video products were rated as "Top Ten Video Transmission Enterprises" by China's industrial control industry.</p>

Corporate Honor	<p>2015, the noise monitoring project was awarded the "Sample Project Award" by the 14th China Automation Annual Conference.</p> <p>2015, its video products were rated as "Top Ten Video Transmission Enterprises" by Huaqiang Security Network.</p> <p>2016, the video products was rated by Huaqiang Security Network as "2015-2016 High-quality Supplier in China's Security Industry".</p> <p>2016, it was rated as the "best supplier of charging equipment parts" by charging pile communication equipment.</p> <p>2016, won the " Product Gold Award of 2016 7th Guangzhou International New Energy Automobile Industry Exhibition ".</p> <p>2016, The 3rd China Good Wi-Fi Organizing Committee awarded Caimore "2016 Best Wi-Fi Industry Application Solution Provider".</p> <p>2018, the company's industrial router was rated as "China's Top Ten Industrial Router Brands", and DTU was rated as "China's DTU Top Ten Brands"</p> <p>2018, it was rated as a key listed reserve enterprise in Xiamen City.</p> <p>2019, it was rated as a key listed reserve enterprise in Xiamen City.</p> <p>2019, it was rated as a key listed reserve enterprise in Fujian Province.</p> <p>2019, Shortlisted for China Telecom Corporation Limited, DICT solution partner of Shanghai branch</p> <p>2020, Selected as a key listed reserve company in Xiamen</p>
High-tech Enterprise	2009, it was recognized as a high-tech enterprise by the country
Double-soft Enterprise	2010, it was recognized as a double-soft enterprise by the country
Occupational Health and Safety Management System Certification	<p>ISO9001:2015 quality management system conforms to the standard</p> <p>ISO14001:2015 environmental management system conforms to the standard</p> <p>ISO45001:2018 occupational health and safety management system conforms to the standard</p>
Copyright	The company has 7 patented technology certificates to maintain equipment stability and 31 software copyright certificates.
Offices	Nine regional offices have been established nationwide to provide customers with close and considerate services.
Registered Capital	The company has a registered capital of 20.58 million; it is a key high-tech enterprise supported by Xiamen City.
Historical Accumulation	18 years of industry R&D accumulation and industry application test.