## CM510-14X



### **Product Introduction**

This product adopts ARM9 industrial-grade high-performance embedded processor, takes real-time operating system as the software supporting platform, with super-large memory and embedded TCP/IP protocol stack with independent intellectual property rights. The device supports double-data center backup and multi-data center synchronous receiving data and support sending Alarm SMS; The equipment provides online maintenance technology to keep the data terminal permanently online, keep the data link unblocked at any time, and realize high-speed, stable and reliable TCP/UDP transparent data transmission function.



This product has been widely used in power centralized meter reading, water meter centralized meter reading, heat network monitoring, gas monitoring, water conservancy monitoring, environmental protection testing, meteorological testing, earthquake monitoring, traffic control and other industries.

### Model No.

Model No.	Interface Type	Network	RS232 (8,N,1)	RS485	RSTTL	Data Cache
CM510-14F	20PIN Plug	4G	Support	Support	Support	8K

## Technical Parameters

### **Accessories**









**Power Supply** 

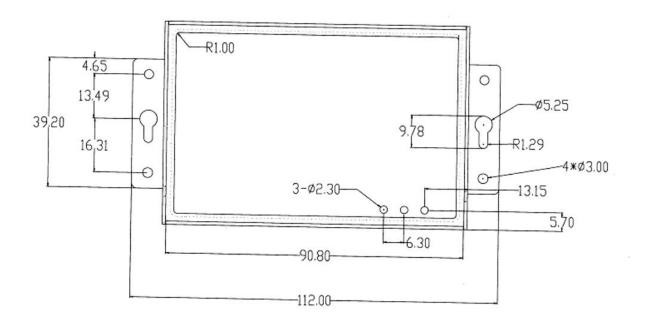
20PIN Plug

Serial Cable (20PIN Plug/RS485/RS232/Power Connector

Antenna

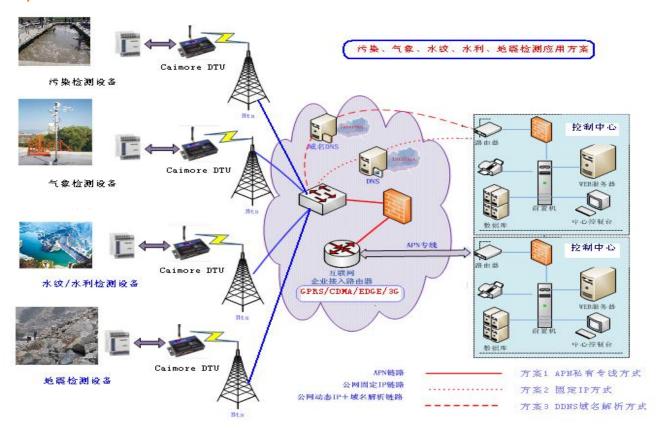
Model NO.	CM510-14F			
Cellular Parameters				
Network	LTE-FDD/HSPA+/UMTS/HSDPA/HSUPA/WCDMA/EDGE/GSM			
	EGSM 900 Power Class 4 2 W, 33 dBm			
Chandards and Francisco	GSM 1800 / 1900 Power Class 1 1 W, 30 dBm			
Standards and Frequency  Bands	EDGE Power Class for 900MHz Class E21 27 dBm, 0.5 W			
ballus	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			
Communication 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	8			
Stop Bit	1			
Parity Bit	no parity, odd parity, even parity, SPACE and MARK parity			
Serial Speed	110bps ~ 23400bps			
Flow Control	None flow control, RTS/CTS hard flow control or XON/XOFF soft flow control			
Interface	1*RS485 interface or 1* RS232 serial port (support RS422/TTL)			
Interface				
Indicator	Power / ACT / Online			
Antenna Interface	Standard SMA female interface,50ohm; optional 3M/5M/10M/15M antenna extension cable, meet the			
Antenna Interrace	different needs of customers.			

UIM Interface	1.8V/3V/5V standard putter user card interface, built-in 15KV ESD protection.			
Power Interface	Standard 3-pin power jack.			
Enable Pin	Support customer to control power up and down of equipment.			
Power Supply				
Supply Voltage	DC6V to 32V. Over-voltage protection. Power reverse protection.			
Standard Power Supply	DC9V/1500mA			
Average Communication Current	350mA@+9VDC			
Communicating Instantaneous Peak Current	1.0A@+9VDC			
Standby Current	<34mA@+ 9VDC			
Operation System				
OS	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 IP41; particularly suit for harsh industrial control environments.			
Product Dimension	92*62*24 mm(Antenna and fixer are not included)			
Package Size	298*226*60mm			
Weight	0.41kg			
Other Parameters				
Operating Temperature	-25ºC ~ +65ºC			
Operating Temperature Extended Operating Temperature				
Extended	-25ºC ~ +65ºC			

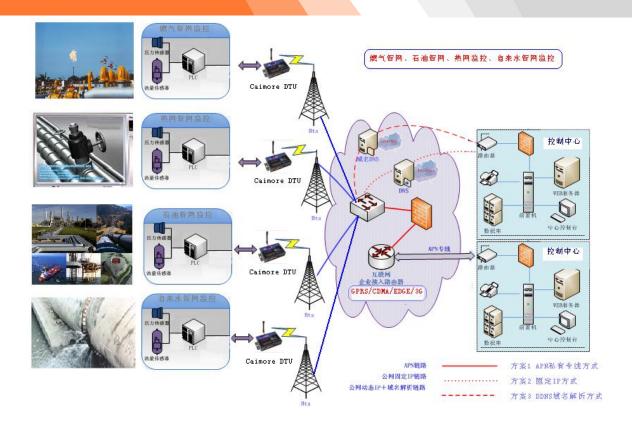


## **Product Application**

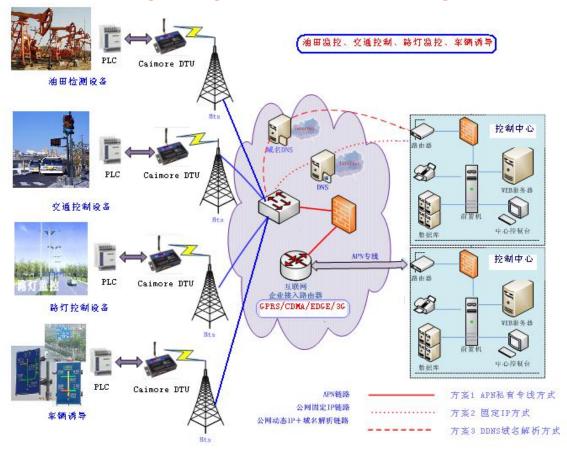
1. Application in detection industry (pollution, weather, watermark, water conservancy, earthquake, etc.)



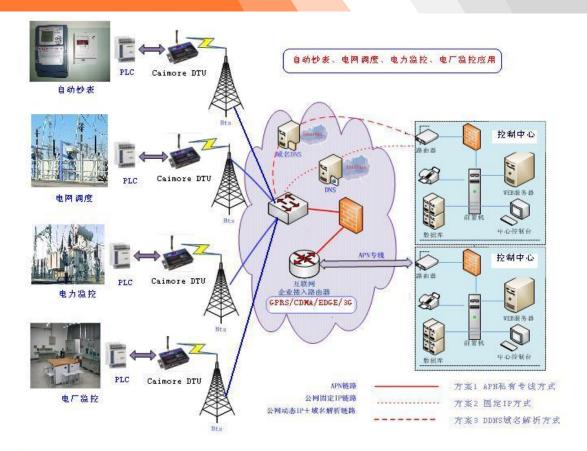
2. Network management monitoring industry application (gas pipe network, oil pipe network, heating network monitoring, tap water pipe network monitoring, etc.)



3. Oilfield monitoring, street light control, traffic control, vehicle guidance



4. Power industry application cases (distribution monitoring, grid automation, automatic meter reading, grid dispatching)



### **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
	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".
	2012, the company became a member of "China Quality Travel".
	2013, the company became a member of the "Technical Innovation Strategic Alliance of
	Intelligent Power Transmission and Distribution Equipment Industry".
	2014, it was rated as an innovative pilot enterprise .
	2014, the company's Zhanjiang Wi-Fi coverage project was awarded the "Sample Engineering
	Award" by the 13th China Automation Annual Conference.
	2015, its video products were rated as "Top Ten Video Transmission Enterprises" by China's
	industrial control industry.
	2015, the noise monitoring project was awarded the "Sample Project Award" by the 14th China
	Automation Annual Conference.
	2015, its video products were rated as "Top Ten Video Transmission Enterprises" by Huaqiang
Corporate Honor	Security Network.
	2016, the video products was rated by Huaqiang Security Network as "2015-2016 High-quality
	Supplier in China's Security Industry".
	2016, it was rated as the "best supplier of charging equipment parts" by charging pile
	communication equipment.
	2016, won the " Product Gold Award of 2016 7th Guangzhou International New Energy
	Automobile Industry Exhibition ".
	2016, The 3rd China Good Wi-Fi Organizing Committee awarded Caimore "2016 Best Wi-Fi
	Industry Application Solution Provider".
	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"
	2018, it was rated as a key listed reserve enterprise in Xiamen City.
	2019, it was rated as a key listed reserve enterprise in Xiamen City.
	2019, it was rated as a key listed reserve enterprise in Fujian Province.
	2019, Shortlisted for China Telecom Corporation Limited, DICT solution partner of Shanghai
	branch
III:ab aa-b	2020, Selected as a key listed reserve company in Xiamen
High-tech Enterprise	2009, it was recognized as a high-tech enterprise by the country
Litterprise	

Double-soft Enterprise	2010, it was recognized as a double-soft enterprise by the country
Occupational Health and Safety Management System Certification	ISO9001:2015 quality management system conforms to the standard ISO14001:2015 environmental management system conforms to the standard ISO45001:2018 occupational health and safety management system conforms to the standard
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.