Specification of M2M Indusrial GPRS DTU With Block Interface

Model No.	CM3161 (GPRS)

Cellular Parameters

Item	Content
Cellular	GPRS/GSM
Standards and frequency bands	Support EGSM900/GSM1800MHz dual-band, and quad band 850/900/1800/1900 MHz(Optional) Support GSM phase 2/2+ Support GPRS multi-slot class 10, class 12 optional
Coding scheme	CS1~CS4
Communication bandwidth	Theoretical bandwidth: 171.2Kb/s; practical bandwidth: 100Kbits>X> 20Kbits
Transmit power	GSM850/900：<33dBm；GSM1800/1900：<30dBm
Receiver sensitivity	<-107dBm

Hardware system

Item	Content

CPU	Industrial high-performance embedded processor; with cache, high-speed cache data speed up data access, high-speed instruction cache, enhanced instruction processing speed
MMU	CPU with MMU memory management unit, can prevent memory overflow
Flash	64Mbits (expandable to 256Mbits) have enough memory to store programs and data (the actual type shall prevail)
SDRAM	256Mbits (expandable to 2048Mbits), a large enough cache to improve system operation speed (the actual type shall prevail)

Operating System

Item	Content
Operating System	Using LINUX2.6.28 operating system with memory management unit and real-time feature, upgrades is very fast and system is stable

Interface Type:

Item	Content
Serial port	1 RS232/RS485 Data bit:8 bit Stop bits: 1, bit Parity: N Serial speed: 110bps ~ 115200bps Flow Control: None flow control, RTS / CTS hardware flow control or XON / XOFF software flow control

GPIO	"RX","TX","GND","RS485A","RS485B","GND","IO1","IO2"(IO reversed)
Indicator	With power, ACT communication and online indicator
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
Power Interface	Standard 3-pin power jack

Power supply

Item	Content
Supply voltage	Wide voltage design, DC 5V to the DC32V power supply directly to the device; and built-in power supply over-voltage protection and reverse current protection
Standard power supply	DC9V/1.5A
Current while Communicating	Average communication current : 350mA @ +9 VDC; Communicating instantaneous peak current: 1.0A @ +9 VDC
Standby current	Standby average current: <35mA @ +9 VDC

Physical features:

Item	Content
Shell	Metal shell: metal case, anti-radiation, anti-interference; shell and system security isolation, lightning
Product dimensions	92x62x22 mm（not including the antenna and the fixed parts） (the actual type shall prevail)
Packing Size	298x226x60mm (the actual type shall prevail)

Weight	0.41kg (the actual type shall prevail)

Other parameters

Item	Content
Operating Temperature	-25ºC ~+65ºC
Extended operating temperature	-35 ºC~+75ºC
Storage Temperature	-40~+85ºC
Relative Humidity	95%(No condensation)

Feature

1, Remote wakening: support the wakening ways like SMS, voice, data and disconnection overtime
2, Support dual data centers backup and multiple data centers (8) to receive data; it can support the maximum number 256 of sending centers
3, Support serial port software upgrade
4, Support LINUX, UNIX and WINDOWS operating system at the same time
5, Improved network support: support including 2G network (GSM network), 2.5G network (GPRS network), 2.75G network (EDGE network), 3G network (WCDMA network, EVDO network, TD-SCDMA network), 4G network (HSPA+ network, LTE network), all networks supported
6, Abundant interfaces: provide RS232 interface or RS485 interface or TTL interface or RS422 interface or USB interface, all interfaces supported
7, Support fixed IP communication mode: support DDNS dynamic domain name communication mode
8, TCP transparent data transmission and UDP transparent data transmission; support multiple operating modes

9, Intelligent anti-dropped, support online testing, online maintenance, automatic re-dial, ensure the equipment is always on-line