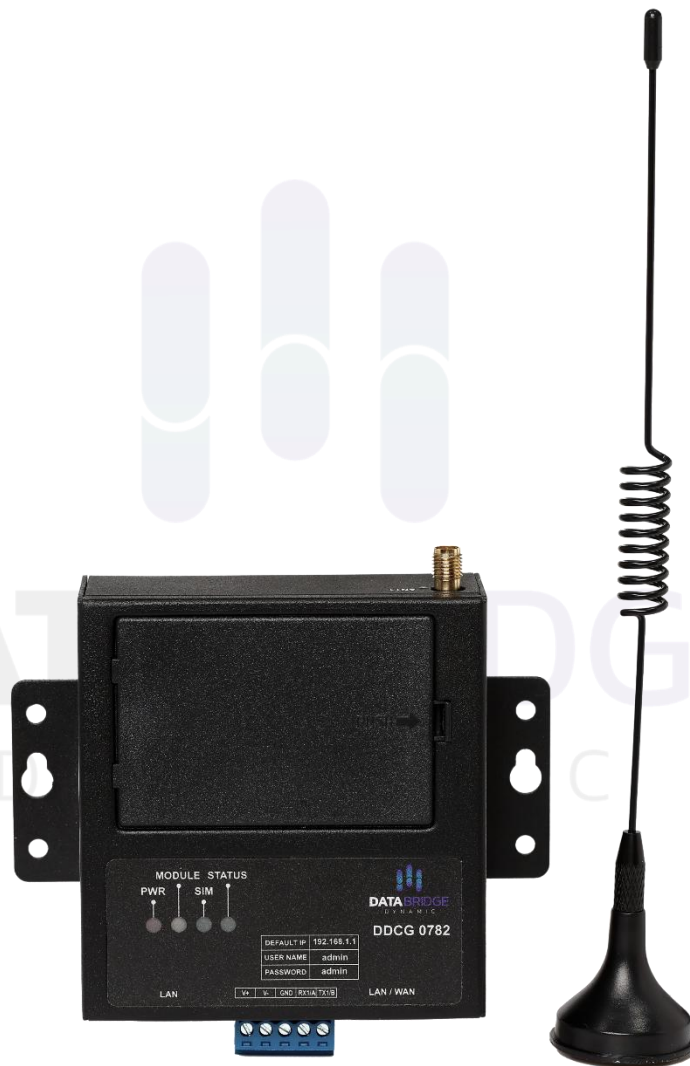




4G LTE & WCDMA CELLULAR GATEWAY

DDCG SERIES



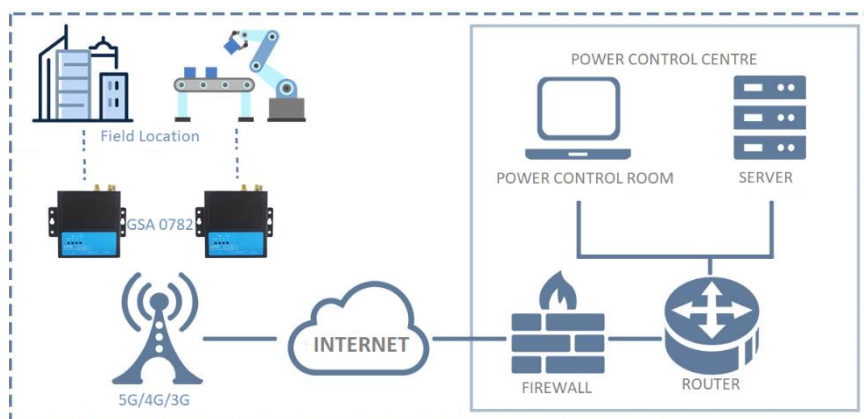
SYNOPSIS

- DDCG 0782 D A IS A CELLULAR GATEWAY PROVIDING DATA TRANSMISSION FUNCTION BY PUBLIC LTE-FDD NETWORK.
- IT USES INDUSTRIAL 32-BITS CPU AND EMBEDDED REAL TIME OPERATING SYSTEM.
- IT SUPPORTS 1 SERIAL PORTS, RS485 DEFAULT (OR RS232 OPTIONAL) AND 2 ETHERNET PORT THAT CAN CONVENIENTLY AND TRANSPARENTLY CONNECT YOUR EXISTING SERIAL AND ETHERNET DEVICES TO A CELLULAR NETWORK.
- IT HAS BEEN WIDELY USED ON M2M FIELDS, SUCH AS SELF-SERVICE TERMINAL, INTELLIGENT TRANSPORTATION, SMART GRID, INDUSTRIAL AUTOMATION, TELEMETRY, FINANCE, POS, WATER SUPPLY, ENVIRONMENT PROTECTION, WEATHER, AND SO ON

HARDWARE FEATURES

- SUPPORT STANDARD 1 RS485 SERIAL PORT DEFAULT (OR 1 RS232 OPTIONAL), 1 * LAN & 1 * LAN/WAN ETHERNET PORT
- LARGE SERIAL PORT DATA CACHE, 10MB, ENSURE THE DATA IS NOT LOST
- SUPPORT HARDWARE AND SOFTWARE WDT
- THE INTELLIGENT DATA TERMINAL CAN ENTER THE DATA TRANSMISSION STATE WHEN IT IS POWERED ON
- SUPPORT AUTO RECOVERY MECHANISM INCLUDING ONLINE DETECT, AUTO REDIAL WHEN OFFLINE TO MAKE GATEWAY ALWAYS ONLINE
- SUPPORT LOW-CONSUMPTION MODE, INCLUDING SLEEP MODE, SCHEDULED ONLINE/OFFLINE MODE, SCHEDULED POWER-ON/POWER-OFF MODE (OPTIONAL)
- HIGH-PERFORMANCE INDUSTRIAL-GRADE WIRELESS MODULE IS ADOPTED
- ENTER INTO COMMUNICATION STATE AUTOMATICALLY WHEN POWERED
- PROVIDE MANAGEMENT SOFTWARE FOR REMOTE MANAGEMENT (OPTIONAL)
- CONVENIENT CONFIGURATION AND MAINTENANCE INTERFACE WEB OR CLI
- ETHERNET PORT IS 1.5KV MAGNETIC ISOLATION PROTECTION
- SERIAL PORTS ARE 15KV ESD PROTECTION
- SIM/UIM PORT IS 15KV ESD PROTECTION
- POWER PORT HAS REVERSE POLARITY AND OVERVOLTAGE PROTECTION
- STANDARD SMA MALE ANTENNA INTERFACE WITH A CHARACTERISTIC IMPEDANCE OF 50 OHMS
- ANTENNA PORT HAS LIGHTENING PROTECTION (OPTIONAL)

SOFTWARE FEATURES



- SUPPORT TCP SERVER.
- SUPPORT DOUBLE DATA CENTERS, ONE MAIN AND ANOTHER BACKUP
- SUPPORT 5 DATA CENTERS AT THE SAME TIME
- SUPPORT NTP, RTC EMBEDDED
- SUPPORT DYNAMIC DOMAIN NAME (DDNS) AND IP ACCESS TO DATA CENTER
- DESIGN WITH STANDARD TCP/IP PROTOCOL STACK
- SUPPORTS POWER 101, 104 AND THE TWO PROTOCOL TRANSFERS
- LOGIN SECURITY AUTHENTICATION IS SUPPORTED
- MULTIPLE INDICATORS TO INDICATE A VARIETY OF SYSTEM STATUSES
- SUPPORT APN/VPDN
- SUPPORT LOCAL LOG STORAGE
- SUPPORT DUAL SIM/UIM CARD (OPTIONAL)
- SUPPORT HARDWARE ENCRYPTION/DECRYPTION (OPTIONAL)
- SUPPORT 3G/HSPA/4G WAN ACCESS METHODS
- SUPPORT VPN CLIENT (OPENVPN, PPTP, L2TP, IPSEC AND GRE)
- SUPPORT LOCAL AND REMOTE (OPTIONAL) FIRMWARE UPGRADE, IMPORT AND EXPORT CONFIGURE FILE
- SUPPORT MODBUS RTU TO MODBUS TCP/IEC PROTOCOL CONVERSION
- SUPPORT MULTIPLE DDNS PROVIDERS
- SUPPORT MAC ADDRESS CLONE, PPPOE SERVER
- SUPPORT MULTI TRIGGER WAYS, SMS, DATA
- SUPPORT LINK DISCONNECTION WHEN TIMEOUT.
- SUPPORT DHCP SERVER AND CLIENT, FIREWALL, NAT, DMZ HOST, URL BLOCK, QOS, TRAFFIC STATISTICS, REAL TIME LINK SPEED STATISTICS ETC
- FULL PROTOCOL SUPPORT, TCP/IP, UDP, ICMP, SMTP, HTTP, POP3, OICQ, TELNET, FTP, SNMP, SSHD, ETC.
- SUPPORT MQTT, MODBUS TCP, MODBUS RTU, IEC104, IEC101 PROTOCOLS.
- LOGIN SECURITY AUTHENTICATION IS SUPPORTED
- EMBEDDED STANDARD TCP/UDP PROTOCOL SUPPORTS TRANSPARENT DATA TRANSMISSION.
- A COMPLETE ANTI-DROP MECHANISM IS ADOPTED TO ENSURE THAT THE DATA TERMINAL IS ALWAYS ONLINE.
- SUPPORT CHAP, PAP AUTHENTICATION

TECHNICAL SPECIFICATIONS

STANDARD & BAND

LOW SPEED LTE MODULE

- FDD-LTE Band B1/3/5/8
- TDD-LTE Band B34/38/39/40/41
- GSM/GPRS 900/1800MHz
- GPRS Terminal Device Class: Class B
- GPRS Coding Schemes CS1 to CS4

BANDWIDTH

- FDD LTE (Mbps) : Downstream rate 10.3Mbps, Uplink rate 5.1Mbps
- TDD-LTE : Downstream rate 9.1Mbps, Uplink rate 3.1Mbps
- GPRS (Kbps) : Downstream rate 85.6 Kbps, Uplink rate 85.6 Kbps
- TX power : <32 dBm
- RX sensitivity : < -93.3 dBm
- Antennae gain : 3dB. Higher gains possible.

HARDWARE SYSTEM

CPU	Industrial 32bits CPU
FLASH	16MB (Extendable to 64MB)
DDR2	128MB (Extendable to 256MB)

INTERFACE TYPE

Ethernet	1 x 10/100M Ethernet LAN port and 1 x 10/100M Ethernet LAN/WAN port (RJ45), Auto MDI/MDIX 1.5KV magnetic isolation protection
Serial Ports	1 RS485 serial port default (or 1 RS232 optional)15KV ESD protection
Connector	5 Pin Terminal Block, 3.81mm
Data bits	5, 6, 7, 8
Stop bits	1, 1.5 (optional), 2
Parity	None, Even, Odd
Baud rate	2400 to 115kbps
Cache Memory	10 MB
Indicator	PWR, Module, SIM, Status
Antenna	Standard SMA Female interface, characteristic impedance 50 ohm
SIM/UIM	Standard 3V/1.8V user card interface, 15KV ESD protection
Reset	Inside the device. Press and hold this button for 8S to restore the configuration parameters of the device to the factory default

POWER SUPPLY

Standard Power	DC 12V/1.5A
Power Range	DC 9 to 60V Screw type Connectors Reverse Voltage and Overvoltage protection
Power Consumption	Standby : < 140 mA@12VDC Working : < 300mA@12VDC

PHYSICAL CHARACTERISTICS

Housing	Iron Shell. IP30 protection
Dimensions	110x85x32mm (without accessories)
Weight	320g
Mounting	Mounting kit. DIN Rail arrangement (Optional)

ENVIRONMENT

Operating Temperature	-35 to +75°C
Storage Temperature	-40 to +85°C
Operating Humidity	95% non-condensing

ORDERING CODE

DDCG 0782 D A

DDCG 0782 D A	Compact 4G Cellular Gateway with 1*RS485 Serial Port (Default)
DDCG 0782 232 D A	Compact 4G Cellular Gateway with 1*RS232 Serial Port (Optional)

