

4G LTE & WCDMA Cellular Gateway, Model GSA 0782

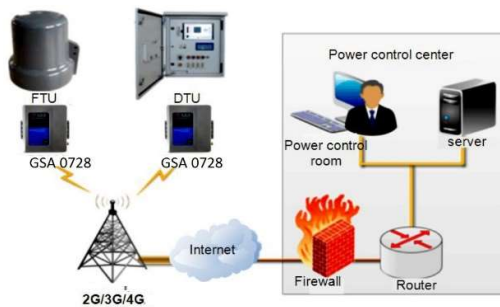


GSA 0782 is a Cellular Gateway providing data transmission function by public LTE-FDD network. It uses Industrial 32-bits CPU and embedded real time operating system
 It supports 2 Serial ports, RS232 and RS485 and Ethernet port that can conveniently and transparently connect your existing serial and 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 2 * RS232 or 1 * RS232 & 1 * RS485 (Factory set) and 1 * Ethernet port
- ✓ Large Serial port data cache, 10MB, ensure the data is not lost
- ✓ Support Hardware and Software WDT
- ✓ 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)
- ✓ Enter into communication state automatically when powered
- ✓ Provide management software for remote management
- ✓ Support several work modes
- ✓ 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
- ✓ Antenna port has Lightning 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
- ✓ 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)

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- ✓ Support local and remote firmware upgrade, import and export configure file
- ✓ Support multiple DDNS providers
- ✓ Support MAC Address clone, PPPoE Server
- ✓ Support multi trigger ways, SMS, Ring and 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

Product Specification

Cellular Specification

Operating Bands:

GSM/GPRS/EDGE	850/900/1800/1900MHz
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CDMA	800/1900MHz
WCDMA/HSUPA/HSPA+	850/900/1900/2100MHz
CDMA2000 1x/ EVDO Rev. A	800/1900MHz
TD-SCDMA	1880-1920/2010-2025MHz(A/F)
TDD-LTE	Band 38/39/40/41& Band 61/62 (Private Network)
FDD-LTE	Band 1/2/3/4/5/7/8/13/17/20/21

Bandwidth:

FDD-LTE	Downstream rate 150Mbps, uplink rate 50Mbps
TD-LTE	Downstream rate 130Mbps, uplink rate 35Mbps
TD-HSPA+	Downstream rate 4.2Mbps, uplink rate 2.2Mbps
DC-HSPA+	Downstream rate 42Mbps, uplink rate 5.76 Mbps
HSPA+	Downstream rate 21Mbps, uplink rate 5.76 Mbps
WCDMA-Max	384Kbps (DL)/Max 384 Kbps (DL)
EDGE	Max 296 Kbps (DL)/Max 236.8 Kbps (UL)
GPRS	Max 107Kbps (DL)/Max 85.6 Kbps(UL)

PPP Protocol	Support PPP Protocol
PPP Heartbeat	Maintaining links with the cellular network to prevent forced sleep, to ensure the stability of dial-up link.
Network Authentication	Support CHAP/PAP Authentication
TCP Heartbeat	Monitor the server connection

TX power	<32dBm
RX sensitivity	-93.3dBm

Hardware System

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

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Interface type

Ethernet

1 * 10/100 Mbps Ethernet port (RJ45), Auto MDI/MDIX
1.5KV magnetic isolation protection

Serial

Ports 2 * RS232 or 1 * RS232 & 1 * RS485 (Factory Set)
15KV ESD protection
Connector 8 Pin Terminal Block, 3.81mm
Data bits 5, 6, 7, 8
Stop bits 1, 1.5 (optional), 2

Parity None, Even, Odd, (space, mark) (optional)
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 Restore the Gateway to its original factory default settings

Power supply

Standard Power DC 12V/1.5A
Power range DC 5 to 60V
Screw type Connectors
Reverse Voltage and Overvoltage protection

Power consumption

Standby < 250 mA@12VDC
Working < 410mA@12VDC

Physical Characteristics

Housing ABS. IP30 protection
Dimensions 109x85x41 mm
Weight 130g
Mounting Mounting kit. DIN Rail arrangement (Optional)

Environmental Limits

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

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Ordering Code	: Model GSA 0782-X-D YYY
GSA 0782	: Base Code for 4G Gateway with 2 Serial Ports, 1 LAN Port : 12V DC powered, Wide range
X	: D : TDD/FDD-LTE Cellular Gateway
D	: Dual SIM
YYY	: 232 : 2 * RS232. 485 : 1 * RS232 & 1 * RS485 (Factory Set)