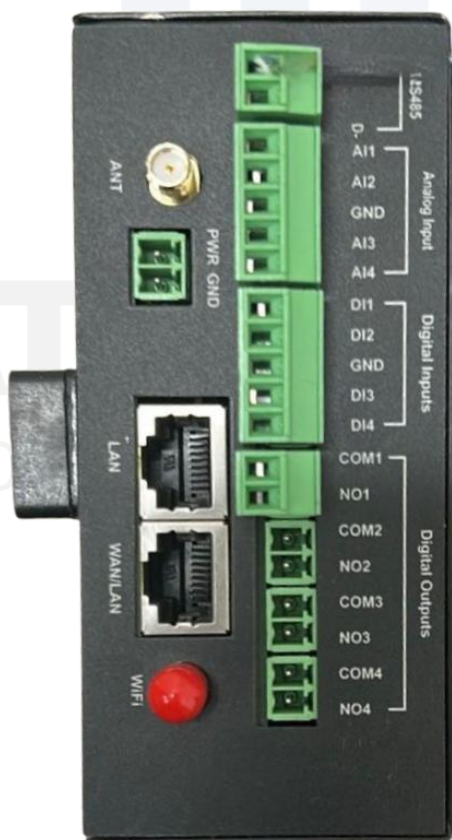
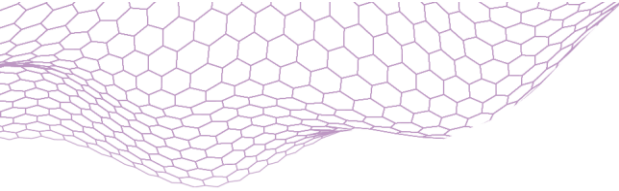




COMPACT 4G LTE SECURED CELLULAR WIFI IOT GATEWAY

SERIES DDCG





SYNOPSIS

- DDCG 8362 485 XXX F IS A IOT GATEWAY THAT PROVIDES DATA TRANSMISSION FUNCTION BY PUBLIC LTE NETWORK. IT SUPPORTS 12 IO'S, 1 * RS485, 1 * LAN, 1 * LAN/WAN AND 1 * WIFI PORTS THAT CAN SECURELY, OVER VPN, SEND THE DATA ON MQTT/HTTP/HTTPS OVER CLOUD.
- IT HAS BEEN WIDELY USED IN INTELLIGENT TRANSPORTATION, SMART GRID, INDUSTRIAL AUTOMATION, TELEMETRY, BANKING SECURITY, WATER, DAM & IRRIGATION PROJECTS AND SO ON

HARDWARE SPECIFICATIONS

- INDUSTRIAL 32BITS CPU
- 16MB (EXTENDABLE TO 64MB) FLASH
- 128MB (EXTENDABLE TO 256MB) DDR2

CELLULAR SPECIFICATIONS

STANDARD & BAND

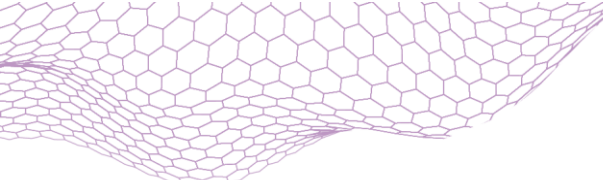
- FDD-LTE B1 to B8 and B28
- FDD LTE 2600/2100/1800/900/800MHz, 700/1700/2100MHz (optional)
- TDD-LTE B38/B39/B40/B41
- TDD LTE 2300/2500/2600 MHz
- TD-SCDMA: B34, B39
- HSPA+/UMTS B1/B2/B5/B8
- WCDMA/HSPA+: Band 1, 8, TD-SCDMA: Band 34, 39
- EV-DO: BC0
- CDMA 1x: BC0
- EDGE/GPRS/GSM 850/900/1800/1900MHz
- GPRS Terminal Device Class: Class B
- GPRS Coding Schemes CS1 to CS4

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
- UMTS : 384Kbps
- TX power : <23 dBm
- RX sensitivity : < -97 dBm
- Antennae gain : 3dB. Higher gains possible

INTERFACE

Ethernet	1 * 10/100 Mbps LAN 1 * WAN/LAN configurable Ethernet Auto MDI/X, 1.5KV magnetic isolation protection																																				
Serial	1 * RS485 Port <table><tr><td>Data bits</td><td>5, 6, 7, 8</td></tr><tr><td>Stop bits</td><td>1, 1.5 (optional), 2</td></tr><tr><td>Parity</td><td>None, Even, Odd (space, mark) (optional)</td></tr><tr><td>Baud Rate</td><td>2400 to 115200bps</td></tr></table>	Data bits	5, 6, 7, 8	Stop bits	1, 1.5 (optional), 2	Parity	None, Even, Odd (space, mark) (optional)	Baud Rate	2400 to 115200bps																												
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Baud Rate	2400 to 115200bps																																				
Indicator	PWR, Online, LAN, LAN/WAN, Wi-Fi																																				
IO's	12. (4*AI, 4*DI, 4*DO) Analog Inputs <table><tr><td>Number of Inputs</td><td>4</td></tr><tr><td>Connector</td><td>5 Pin 3.5mm Terminal Block</td></tr><tr><td>Analog Input</td><td>4-20mA</td></tr><tr><td>Resolution</td><td>10 bits</td></tr><tr><td>Input impedance</td><td>100 Ω</td></tr></table> Digital Inputs <table><tr><td>Number of inputs</td><td>4</td></tr><tr><td>Connector</td><td>5 Pin 3.5mm Terminal Block</td></tr><tr><td>Digital Input</td><td>External Dry (Potential free)/Wet contact factory settable</td></tr><tr><td>Isolation voltage</td><td>3750Vrms</td></tr></table> Wet Contact <table><tr><td>Logic level 0</td><td>24VDC</td></tr><tr><td>Logic level 1</td><td>0 VDC</td></tr></table> External Dry Contact (Potential Free) <table><tr><td>Logic level 0</td><td>Close to GND</td></tr><tr><td>Logic level 1</td><td>Open</td></tr></table> Digital Outputs <table><tr><td>Number of Inputs</td><td>4</td></tr><tr><td>Connector</td><td>2 Pin 3.5mm 4 Terminal Block</td></tr><tr><td>Digital Output</td><td>Relay outputs</td></tr><tr><td>Relay coil voltage</td><td>5V</td></tr><tr><td>Contact rating</td><td>24VDC @ 10A 230VAC @ 5A</td></tr></table>	Number of Inputs	4	Connector	5 Pin 3.5mm Terminal Block	Analog Input	4-20mA	Resolution	10 bits	Input impedance	100 Ω	Number of inputs	4	Connector	5 Pin 3.5mm Terminal Block	Digital Input	External Dry (Potential free)/Wet contact factory settable	Isolation voltage	3750Vrms	Logic level 0	24VDC	Logic level 1	0 VDC	Logic level 0	Close to GND	Logic level 1	Open	Number of Inputs	4	Connector	2 Pin 3.5mm 4 Terminal Block	Digital Output	Relay outputs	Relay coil voltage	5V	Contact rating	24VDC @ 10A 230VAC @ 5A
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WIFI SPECIFICATION

- IEEE802.11 b/g/n
- 54Mbps for 11b/g & 144 Mbps for 11n
- WEP, WPA, WPA2. WPS Optional
- Tx Power : 15 +/- 2dbm
- Sensitivity : <-72dBm@54Mbps
- Antennae Gain : 5dB
- Antenna : 1 or 2 standard SMA Female Interface.
- 1 WiFi, SMA Male interface. Characteristic impedance 50Ω for both
- SIM/UIM : Standard 3V/1.8V user card interface, 15KV ESD protection
Dual SIM option supporting Active Passive mode

SOFTWARE SPECIFICATIONS

- Multiple protection mechanism to ensure system is always kept online
- Hardware and Software WDT
- Auto recovery mechanism e.g. Online detect, Auto redial when offline to make Gateway always Online
- Enter into communication state automatically when powered
- Dual-link Active/Passive switching function
- 4G/Static IP/DHCP WAN access methods
- Double link backup between Cellular and WAN (PPPoE, ADSL)
- VPN Client (PPTP, L2TP, IPSEC, OPENVPN, GRE)
- Remote management, SYSLOG, SNMP, TELNET, SSHD, HTTPS etc.,
- Local and Remote firmware upgrade, import and export configure file.
- NTP Client
- Multiple DDNS providers
- MAC Address clone, PPPoE Server
- WiFi 802.11 b/g/n, AP, Client, Adhoc, Repeater Bridge mode
- WiFi support WEP, WPA, WPA2 encryption and MAC address filter
- APN/VPDN
- DHCP server and client, Firewall, SNAT, DNAT, DMZ host, URL block, QoS, Traffic statistics, Real time link speed statistics etc.
- SPI firewall, VPN traversal, access control, URL filtering, etc.
- RIP, OSPF, BGP protocols
- EoIP tunnels.
- Port Bridging.
- Packet filter
- TCP/IP Server or Client, UDP Client, ICMP, HTTP, HTTPS, TELNET, SNMP, SSHD, etc. SMTP, POP3, FTP is optional.
- Modbus RTU to Modbus TCP Conversion.
- Ethernet IP, ProfNet, SNMP, BACnet IP, DNP3.0 Protocols in Transparent Mode.
- HTTP, HTTPS and MQTT v3.1.1
- MODBUS RTU/Modbus TCP Master interface for field devices
- RS485 Port connects up to 31 Modbus devices, 1000 Modbus registers supported
- Modbus slave devices configuration using WEB interface.
- Supports Modbus function codes 01, 02, 03 and 04
- Supports Modbus data types 16-bit Integer, Float, Swapped Float, 32-bit Integer and 32-bit Swapped Integer.
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- User can set Modbus Slave Device configurations e.g., Device ID, Holding Register addresses, Length etc. via WEB Interface
- Multi-Trigger ways, SMS, Ring and Data
- Local Log storage.
- SMS through Telnet.

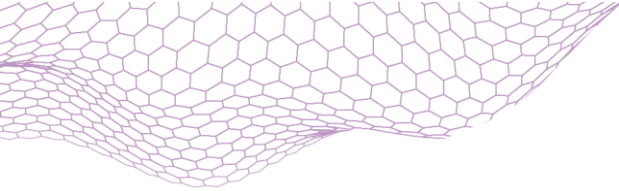
OTHER SPECIFICATIONS

Power consumption	Standard Power	DC 12V/1.5A, 12VDC to 36VDC
	Connectors	2 Pin, 3.5mm Terminal block
	Standby	120 to 150 mA.@12VDC
	Working	170 to 330 mA. @12VDC
Protection	Ethernet Port	1.5KV magnetic isolation 15KV ESD protection
	RS485 Port	15KV ESD Protection 800W Surge Protection
	SIM/UIM Port	15KV ESD Protection
	Power port	Reverse-voltage and overvoltage protection
	Antenna Port	Lightening protection (optional)
Physical Characteristics	Housing	Metal. IP30 protection
	Dimensions	93 * 93 * 52 mm
	Weight	500g
	Mounting	Desktop. DIN Rail is optional Accessory
Environmental Limits	Operating Temperature	-35 to +75°C
	Storage Temperature	-40 to +85°C
	Operating Humidity	95% non-condensing
	MTBF	500,000 hours

ORDERING CODE

DDCG 8362 485/232 XXX F

DDCG 8362	Compact 4G Cellular Gateway	
485/232	485	1 * 485 Port
	232	1 * 232 Port
XXX	Types of IOs	
F	Fixed	



MODEL VARIANTS AVAILABLE

DDCG 8362 485 040 F	Compact 4G Cellular Gateway, Serial Port 485 with 4 Digital input
DDCG 8362 485 100 F	Compact 4G Cellular Gateway, Serial Port 485 with 1 Analog input
DDCG 8362 485 200 F	Compact 4G Cellular Gateway, Serial Port 485 with 2 Analog input
DDCG 8362 485 240 F	Compact 4G Cellular Gateway, Serial Port 485 with 2 Analog input, 4 Digital Input
DDCG 8362 485 241 F	Compact 4G Cellular Gateway, Serial Port 485 with 2 Analog input, 4 Digital Input, 1 digital output
DDCG 8362 485 400 F	Compact 4G Cellular Gateway, Serial Port 485 with 4 Analog input
DDCG 8362 485 440 F	Compact 4G Cellular Gateway, Serial Port 485 with 4 Analog input, 4 Digital Input
DDCG 8362 485 444 F	Compact 4G Cellular Gateway, Serial Port 485 with 4 Analog input, 4 Digital Input, 4 digital outputs

DATA BRIDGE
D Y N A M I C