



5G INDUSTRIAL GIGABIT MODEL

DDCG SERIES

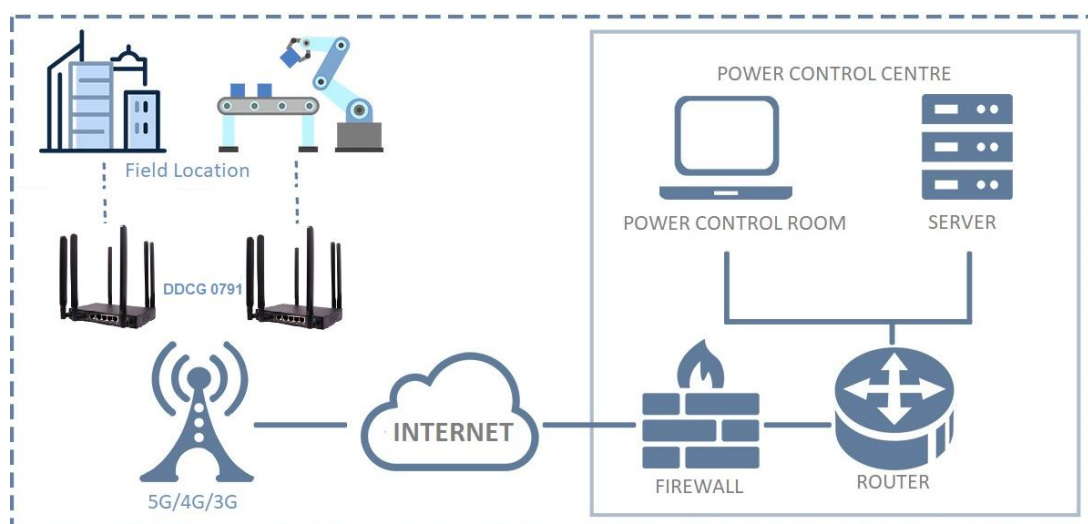


SYNOPSIS

- DDCG 0719 485 A 5G MODEM IS A TERMINAL DEVICE THAT IS DEVELOPED BASED ON 5G/4G/3G/2G, WIFI, VPN TECHNOLOGY. IT USES HIGH-POWERED INDUSTRIAL 32-BITS CPU AND EMBEDDED REAL TIME OPERATING SYSTEM.
- IT SUPPORTS 1 GIGABIT ETHERNET WAN AND 4 GIGABIT ETHERNET LAN, 1 RS232 (OR RS485), AND 2.4G/5.8G WIFI PORT THAT CAN CONVENIENTLY AND TRANSPARENTLY CONNECT ONE DEVICE TO A CELLULAR NETWORK

FEATURES

- SUPPORT STANDARD RS232(OR RS485/RS422), ETHERNET AND WIFI PORT THAT CAN CONNECT TO SERIAL, ETHERNET AND WIFI DEVICES DIRECTLY
- WI-FI SUPPORT 802.11B/G/N/AC.
- SUPPORT AP, CLIENT.
- SUPPORT AUTO RECOVERY MECHANISM, INCLUDING ONLINE DETECT, AUTO REDIAL WHEN OFFLINE TO MAKE IT ALWAYS ONLINE
- CONVENIENT CONFIGURATION AND MAINTENANCE INTERFACE
- SUPPORT DUAL SIM/UIM CARD (OPTIONAL)
- SUPPORT HARDWARE AND SOFTWARE WDT
- SUPPORT TCP SERVER
- SUPPORT MULTI DATA CENTERS AND IT CAN SUPPORT 5 DATA CENTERS AT THE SAME TIME
- SUPPORT LOCAL LOG STORAGE.
- SUPPORT PYTHON SECONDARY DEVELOPMENT PLATFORM, (OPTIONAL) (PYTHON3)
- SUPPORT DUAL 4G/5G MODULE (OPTIONAL)
- SUPPORT GPS DUAL-MODE POSITIONING (OPTIONAL)
- POWER PORT: REVERSE-VOLTAGE AND OVER VOLTAGE PROTECTION
- SUPPORT MQTT, MODBUS TCP, MODBUS RTU, IEC104, IEC101 PROTOCOLS.
- SUPPORT MODBUS RTU TO MODBUS TCP/IEC PROTOCOL CONVERSION.



INDUSTRIAL DESIGN

- HIGH-PERFORMANCE INDUSTRIAL-GRADE WIRELESS MODULE IS ADOPTED
- IT ADOPTS A HIGH-PERFORMANCE INDUSTRIAL-GRADE 32-BIT COMMUNICATION PROCESSOR
- IP30 PROTECTION IN A METAL HOUSING. THE METAL HOUSING AND SYSTEM ARE SAFELY ISOLATED, WHICH IS ESPECIALLY SUITABLE FOR INDUSTRIAL CONTROL FIELD APPLICATIONS
- WIDE POWER INPUT (DC 9~35VDC)

HIGH RELIABILITY DESIGN

- WDT WATCHDOG DESIGN TO ENSURE THE STABILITY OF THE SYSTEM
- A COMPLETE ANTI-DROP MECHANISM IS ADOPTED TO ENSURE THAT THE DATA TERMINAL IS ALWAYS ONLINE
- THE ETHERNET INTERFACE HAS BUILT-IN 1.5KV ELECTROMAGNETIC ISOLATION PROTECTION
- RS232/RS485 INTERFACE WITH BUILT-IN 15KV ESD PROTECTION
- THE SIM/UIM CARD INTERFACE HAS BUILT-IN 15KV ESD PROTECTION
- THE POWER INTERFACE HAS BUILT-IN INVERTING PROTECTION, OVER-CURRENT AND OVER-VOLTAGE PROTECTION
- ANTENNA INTERFACE LIGHTNING PROTECTION (OPTIONAL)

SPECIFICATIONS

	INTERFACE DESCRIPTION
WAN	1 Gigabit Ethernet ports (RJ45)
LAN	4 Gigabit Ethernet ports (RJ45)
serial	1 RS232 (or RS485) (RJ45) Data bits: 5,6,7,8 bits Stop bits: 1, 1.5 (optional), 2 bits Verification: No, Even and Odd verification Serial port Rate 2400 to 115200 bps, default 115200bps
Antenna	Standard SMA female interface, 50 ohm
SIM/UIM	Standard 3V/1.8V user card interface, 15KV ESD protection
Power	Standard 2-PIN power jack, Reverse- polarity and over voltage protection
Reset Button	Press this key for 8 seconds to restore the module to its original factory default settings
Indicator light	"Signal strength", "PWR", "RUN", "SIM", "Online", "LAN1", "LAN2", "LAN3", "LAN4", "WAN", "APP", "WIFI2.4", "WIFI5.8", "SIM2"(optional)

CPU SYSTEM

CPU	Industrial Grade 32 Bit communication processor
Flash	16MB (Expandable to 64MB)
SDRAM	256MB

NETWORK PARAMETER

Cellular network	GSM/GPRS/EDGE: 850/900/1800/1900MHz DMA: 800/1900MHz WCDMA: 850/900/1900/2100MHz CDMA2000 1x/EVDO Rev. A: 800/1900MHz TD-SCDMA: 1880-1920/2010-2025MHz(A/F) TDD-LTE: B38/39/40/41 and B61/62 (private network) FDD-LTE: B1/2/3/4/5/7/8/13/17/20/25/28 5G NR SA/NSA: n1/2/3/5/7/8/12/20/28/41/66/71/77/78/79
Bandwidth	5G SA Sub-6 2 Gbps (DL)/ 1 Gbps (UL) 5G NSA Sub-6 2.2 Gbps (DL)/ 575 Mbps (UL) LTE 600 Mbps (DL)/ 150 Mbps (UL) UMTS: 42.2 Mbps (DL)/ 11 Mbps (UL)
WAN protocol	PPP/PPPOE is supported
LAN protocol	APR is supported
Network Authentication	CHAP/PAP authentication is supported
Network access	APN/VPDN is supported
IP applications	Ping, Trace, DHCP Server, DHCP Relay, DHCP Client, DNS Relay, DDNS, and Telnet are supported
IP routing	Static routes are supported

WIFI PARAMETER

Standards and Frequency Bands	Support IEEE802.11b/g/n, 2.4G, support AP mode, Station mode (optional) Support IEEE802.11ac, 5.8G, support AP mode, Station mode (optional)
Theoretical bandwidth	IEEE802.11b/g: The maximum speed is 54 Mbps IEEE802.11n: The maximum speed is 300 Mbps IEEE802.11ac: The highest speed is 866 Mbps
Secure encryption	Support WEP, WPA, WPA2 and other encryption methods, optional WPS function
Transmit power	26dBm (11b) 21dBm (11ac/MCS7/HT40) 20dBm (11ac/MCS9/HT80)
Receive sensitivity	< -72dBm 54Mbps

POWER

Power supply range	DC9 to 35V (12VDC recommended)
Standard Power supply	DC 12V/1.5A
Communication current	<700mA @12VDC

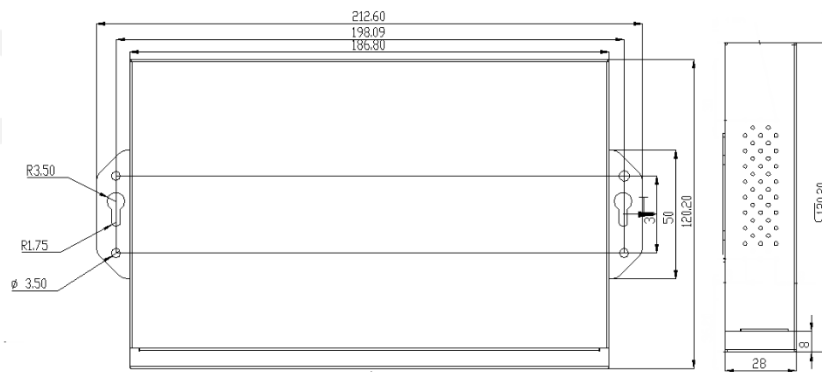
MECHANICAL

Dimensions	186.8x120.2x28mm (excluding accessories)
Weight	610g (excluding accessories)
Device Enclosure	High hardness iron housing
Installation	Over ear or DIN 35mm rail (optional)

ENVIRONMENTAL

Operating temperature	-35 to +75°C
Storage temperature	-40 to +85°C
Relative humidity	95% (non-condensing)

DIMENSIONS



ORDERING CODE

DDCG 0719 485 GPS A

DDCG 0719	Databridge Dynamic 5G Supported Cellular Gateway with LAN: 4* Gigabit Ethernet ports (RJ45) WAN: 1* Gigabit Ethernet ports (RJ45)
485	RS485/RS232
GPS	Optional GPS Module
A	Fixed