



INDUSTRIAL GRADE 4G CELLULAR ROUTER

DDCG SERIES



SYNOPSIS

- DDCG 0788H A SERIES ROUTER USES HIGH-POWERED INDUSTRIAL 32-BITS CPU AND EMBEDDED REAL TIME OPERATING SYSTEM.
- IT SUPPORTS DUAL SIM, RS232 AND RS485, WAN, LAN AND WI-FI PORTS THAT CAN CONVENIENTLY AND TRANSPARENTLY CONNECT DEVICES TO A CELLULAR NETWORK.
- IT HAS BEEN WIDELY USED ON M2M FIELDS, SUCH AS INTELLIGENT TRANSPORTATION, SMART GRID, INDUSTRIAL AUTOMATION, TELEMETRY, POS, WATER SUPPLY, ENVIRONMENT PROTECTION AND SO ON

PRODUCT FEATURES

Industrial Design

High-powered Industrial cellular module
High-powered Industrial 32bits CPU
Housing : Iron, providing IP30 protection
Power range : DC 9 to 35V

High Reliability

Support Hardware and Software WDT
Support Auto recovery mechanism to make Router always online
Ethernet port : 1.5KV magnetic isolation protection
Serial Ports : 15KV ESD protection
SIM/UIM port : 15KV ESD protection
Power port : Reverse Polarity and Over voltage protection
Antenna port : Lightning protection (optional)

Standard and Convenience

Support standard RS232 or RS485, Ethernet and Wi-Fi port that can connect to Serial, Ethernet and Wi-Fi devices directly
Support standard WAN port and PPPOE protocol that can connect to ADSL directly
Support Intellectual mode
Enter communication state automatically when powered
Support several work modes
Convenient configuration and maintenance interface (WEB or CLI)
Supports 35mm Din-rail mounting

High-performance and Security

Support multiple WAN access methods, including static IP, DHCP, PPPOE, 2.5G / 3G / 4G
Support Double link backup between 2.5G /3G/ 4G and WAN (optional)
Support VPN client (OpenVPN, PPTP, L2TP, IPSEC and GRE)
Support Remote management, SYSLOG, SNMP, TELNET, SSH, HTTPS, etc.
Support Local and Remote firmware upgrade, Import and export configure file
Support NTP, RTC embedded.
Support multiple DDNS provider service.
Support MAC address cloning.
Wi-Fi support 802.11b/g/n. support AP, client. (Optional)
Wi-Fi support WEP, WPA, WPA2 encryption. (optional)
Support multiple online trigger ways, including SMS, ring and data. Support link disconnection when timeout
Support APN / VPDN
Support multiple DHCP server and DHCP client, DHCP binding MAC address, DDNS, Firewall, NAT, DMZ host, QoS, traffic statistics, real-time display data transfer rate etc.
Support TCP/IP, UDP, FTP (optional), HTTP, etc.
Supports SPI firewall, VPN pass-through, access control, URL filtering, etc.
Support Local log storage.
Support GPS (optional).

TECHNICAL SPECIFICATIONS

HARDWARE SYSTEM

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

INTERFACE

Serial	1 RS232 and 1 RS485 User Selectable, 15KV ESD protection Serial port : 5 PIN industrial terminal, 3.5mm pitch Data bits : 5, 6, 7, 8 Stop bits : 1, 1.5(optional), 2 Parity : None, Even, Odd, Space, Mark Baud rate : 2400 to 115kbps Large serial port data cache : 10MB
WAN/LAN	1*10/100Mbps Auto MDI/MDIX, 1.5KV Magnetic isolation protection
LAN	2*10/100Mbps Ethernet ports (RJ45) Auto MDI/MDIX, 1.5KV magnetic isolation protection
Antenna	Cellular : Standard SMA female interface, 50 ohms Wi-Fi : Standard SMA male interface, 50 ohms
SIM/UIM	Standard 3V/1.8V user card interface 15KV ESD Protection Support Dual SIM.
Power	2 Pin Industrial terminal, 3.81mm pitch Reverse Polarity and Over voltage protection
Reset	Press this key for 8 seconds to restore the Router to its original factory default settings
Indicator	PWR, SIG, NET, APP, Link (RJ45)

NETWORK

Wireless Network

Operating Bands:

GSM/GPRS/EDGE : 850/900/1800/1900MHz
GSM/GPRS/EDGE: 850/900/1800/1900MHz
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

WI-FI

Standard	IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g : 54Mbps (max) IEEE802.11n : 150Mbps (max)
Security	WEP, WPA, WPA2, etc. WPS (optional)

POWER SUPPLY

Power range	DC 9 to 35V Recommended 12VDC/1.5A.
Communication Current	<350mA @12VDC
Standby Current	<250mA @12VDC

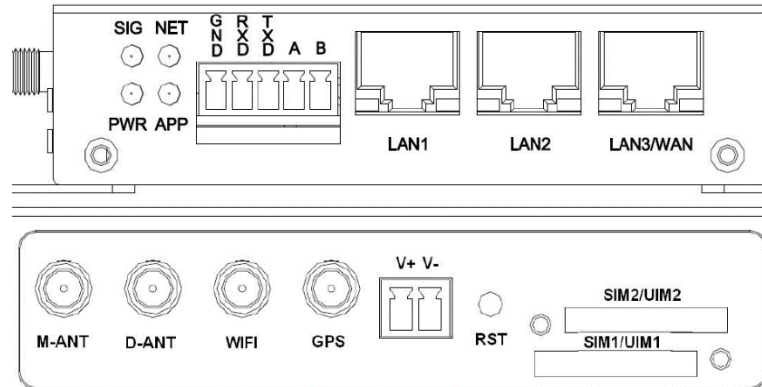
PHYSICAL

Dimensions	107x98x24mm
Weight	350g
Installation	Mount Kit or DIN Rail 35mm (optional)

ENVIRONMENTAL

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

FRONT AND TOP VIEWS



ORDERING CODE

DDCG 0788H A

DDCG 0788H

4G Cellular Router with 1 * WAN, 2 * LAN, & 1*RS232, 1
*RS485 port

A

Fixed

DATA BRIDGE
D Y N A M I C