



M2M 4G - IDG Series IDG400-0TE01 4G Modem

Wireless WAN at Instant

LTE based modem with Ethernet interface brings simplicity to wireless connection process. It enables WAN connectivity for geo-distributed standalone devices across category of IT, business, industry and security.

Dedicated to customer applications

Essential flexibility is offered to support unique user cases. Built-in Qualcomm based LTE module and based on open Linux platform, it is highly programmable for customized applications. Compact device features rugged aluminum enclosure and can operate in temperature range from -30°C to +70°C. USB powered, low weight and detachable antennas. It easy to deploy anywhere and integrate into end host devices.

Zero-touch configuration

Plug and play Modems allow instant connectivity for wide range of devices right out of the box. Carrier auto detection and auto APN allow zero configuration connection. Toolkit enables data usage statistics and connection budget control. Backward compatible to past cellular network, it can automatic down grade to operate according to infra-structure deployment.

Network supervision

Monitoring and settings are available using web UI, AT Commands and SMS. It can also monitors location based devices connectivity status. All are helpful for multi-site management.

Geo location awareness

Assisted and standalone GNSS modes are having an accuracy of 5m. Modems are capable of geo location awareness. It is helpful to monitor location based devices connection status, or to track mobility devices. Location data complies with NMEA 0183 protocol for backend integration.

Block Diagram:



IDG400-0TE01

1*LTE (1*SIM)

1*RJ45 LAN

1* uUSB 5V

-0TE01: LTE Cat4

Application:

- Business: Signage, Vending, Kiosk, ATM, POS, Gas/Charge station, Locker
- IT: L3 Switch, NAS, KVM/AV Switch, PDU, WLAN controller , Terminal server
- Industry: PLC, HMI, HVAC, Utility, HEMS,IPC, Elevator, Machine Tools, IED, Generator
- Security: IP-CAM, NVR/DVR, Gate Control

Connection Diagram:



Specification Summary

Device Interface

- **LTE Module:** 1*LTE-Cat.4, 1*uSIM, GPS(Optional),
- **Ethernet :** 1*RJ45 FE
- **Power Input :** Micro USB 5V (Option up to 32V)
- **Antenna Con.:** 2*SMA (F)-LTE ,1* SMA(F)-GPS(Optional)

Network

- **Device Mode:** NAT/Modem
- **WAN:** Cellular Access & Config
- **Cellular:** 3GPP, 2G/3G/LTE, IP Pass-through, IPv4/6
- **Keep Alive:** ICMP

Protocol

- **LAN:** DHCP Server
- **IPv6:** Cellular IPv6
- **Port Forwarding:** Virtual Server
- **Ext. Server:** DDNS

System

- **System Time:** Cellular Cell & NTP Sync Time

Administration

- **Configuration:** Web UI, CLI via Telnet & SSH, Password & MMI
- **System:** FW Upgrade, Reboot & Reset

Service

- **Cellular Toolkit:** SMS
- **GNSS:** GPS Location Tracking

Environment

- **OP/Store Temp.:** -30°C ~ 70°C; -40°C ~ 85°C
- **Humidity:** 10%~95% (non-condensing)
- **Enclosure:** Metal, Bracket
- **Dimension:** 77.4x68.5x26mm

Certificate - CE

- Standards & Regulation
- EMI: EN 55032: 2015 +AC: 2016 Class B, EN61000-3/-6
- EMS: EN 55024, IEC 61000, EN61000-6
- Radio: EN 301 489,, EN50385
- Safety: EN 60950-1, EN 62368-1

Package Accessory

- 1*Device
- 2*Cellular Antenna (3dBi)
- 1*MicroUSB Cable
- 1*RJ-45 Cable

SKU Information:

IDG400-0TE01-00-yy : LTE Cat.4

'yy': Area Variant. As below table

yy	SKU	Band	Module Certi.	System Cert.
E0	EU	B1/3/7/8/20	CE,GCF	CE
R0	Russia	B3/7/20	-	EAC
J0	Japan	B1/9/18/19/21	Telec , NTT,KDDI	Telec
J1	Japan	B1/8/41	Telec , Softbank	TBD

Comment

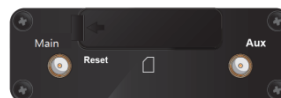
- Specifications are subject to change without prior notice..
- Besides CE, region Certification need to check for availability.

Mechanic Drawing

• Top View



• Front View



• Back View



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