amit
Enabling Wireless M2M - IoT

M2M 4G - IDG Series
IDG400-0TE0S
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 Sierra Wireless module and based on open Linux Legato 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:

IDG400-0TE0S

| 1*LTE (1*SIM) | 1*RJ45 LAN |

| 1* uUSB 5V |

-0TE0S: LTE Cat4

Application:
- Business: Signage, Vending, Kiosk, ATM, POS, Gas/Charge station, Locker
- IT: L3 Switch, NAS, KVM/AV Switch, PDU, WALN controller , Terminal server
- Industry: PLC, HMI, HVAC, Utility, HEMS,IPC, Elevator, Machine Tools, IED, Generator
- Security: IP-CAN, 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)

WAN & Uplink
- **WAN:** Cellular & Config
- **Cellular:** 3GPP, 2G/3G/LTE, IP Pass-through, IPv4/6
- **Network Monitor:** ICMP/DNS Query

Protocol
- **LAN & VLAN**: DHCP Server
- **IPv6:** Cellular IPv6

Security
- **Firewall:** SPI Firewall with Stealth Mode

Administration
- **Configuration:** Web UI, CLI
- **System:** Upgrade, Reboot & Reset, SysLog
- **Developing Env.:** Yocto Linux , Legato Framework, Python

Service
- **Cellular Toolkit:** SMS, SIM PIN
- **Event Handling:** User Defined Manage/Notify Event; Action & Trigger by SMS, Email
- **GNSS:** GPS Location Tracking / Viewer

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, EN 300 328 ,EN 301 893, EN50385
- Safety: EN 60950-1, EN 62368-1

Package Accessory
- 1*Device
- 2*Cellular Antenna (3dBi)
- 1*MicroUSB Cable

SKU Information:

IDG400-0TE0S-00-yy : LTE Cat.4
'yy': Area Variant. As below table

yy	SKU	Band	Module Certi.	System Cert.	GNSS
E0	EU	B1/3/7/8/20	CE,GCF	CE	GPS, Glonass
U0	US	B2/4	PTCRB, AT&T	TBD	GPS

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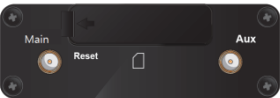- Besides CE, region Certification need to check for availability.

Mechanic Drawing

- *Top View*

- *Front View*

- *Back View*