Enabling Wireless M2M - IoT

4G WAN Extender

IDG500-0T012

Functions:

- Expanding LTE based WAN connection for various IP networks at instant, including enterprise , industry, surveillance , WiFi hotspot network.
- To be primarily or backup WAN for IP network enhances connection. It can expand fail-over for network at single WAN between LTE and Ether-WAN. There are dual SIMs for single LTE to achieve ISP fail-over when primarily fail.
- Compact and easy to be integrated into solution. Device covers LTE and two port Fast Ethernet LAN (One configurable WAN). Micro-SD used for log storage .
- Capable of rich VPN tunnel technology can build VPN tunnel between IP network/network device with remote center or allow clients to connect in for secure data transmission.
- Cellular toolkit simplifies setting and utilizes ISP service. Data usage monitoring for budget control. Self-defined SMS commands for easy and quick management.
- Both IPv4/IPv6 protocol stack meet ISP requirement. Gateway base on IP pass through or DHCP based NAT with Port Forwarding. Rich Routing function covers static, dynamic and OSPF compatible with most IP network.
- Web-UI for basic setting. CLI and Command Script for advance setting. TR-069 used with AMIT-NMS for multi-site management. SNMP used for popular network tools management. SDK used for application expansion development.

Block Diagram:

IDG500-0T012

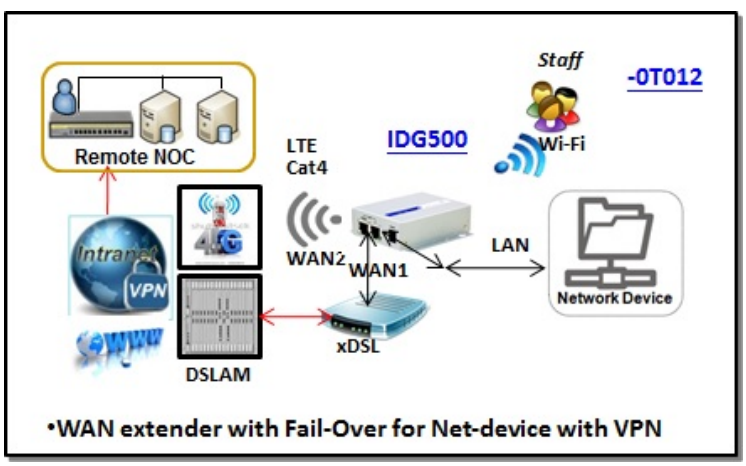
1*LTE (2*SIM)	1*1 11n WiFi
1*RJ45 (cfg)-Ether-WAN	1(2)*RJ45 Ether-LAN
1*1 WiFi(cfg) WiFi Uplink	1*Micro-SD
1*DC 5-18V	

-0T012: LTE Cat4

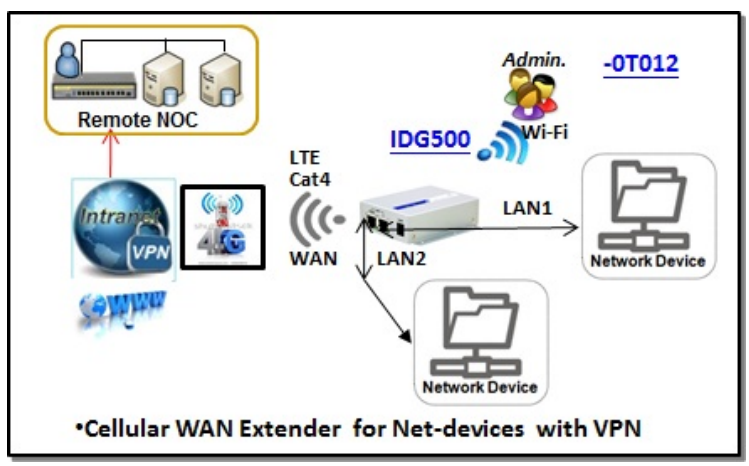
Application:

- SMB data center network backup
- Remote branch network
- Surveillance network

Connection Diagram:



•WAN extender with Fail-Over for Net-device with VPN



•Cellular WAN Extender for Net-devices with VPN

Specification Summary

Device Interface
- **LTE Module:** 1*LTE-Cat.4, 2*SIM
- **Ethernet :** 1(2)*RJ45 FE
- **WiFi**: 1*11n-1*1
- **Log Storage**: 1*MicroSD
- **Power Input :** 1* DC 5V ~ 18V (DC Jack)
- **Antenna Con.:** 2*SMA (F)-LTE,1*SMA(M)-WiFi

WAN & Uplink
- **WAN:** Cellular, Ether-WAN, 1* config. 11n WiFi; Failover
- **Cellular:** 2G/3G/LTE, IP Pass-through, IPv4/v6
- **Ether-WAN:** Dynamic IP, Static IP, PPPoE , PPTP, L2TP
- **Network Monitor:** ICMP/DNS Query

WiFi
- **Standard:** IEEE 802.11 Industry Compliance
- **Mode:** AP Router
- **Functions:** Multi-SSID, WMM
- **Security:** WEP, WPA,WPA2, WPA-PSK, WPA2-PSK, 802.1x

Protocol
- **LAN & VLAN**: DHCP Server/Relay , Port/Tag based VLAN
- **IPv6*:** Dual Stack, Static IPv6, DHCPv6, PPPoEv6
- **Port Forward:** Virtual Server, Virtual Computer, DMZ, VPN Pass-through
- **Routing:** Static, Dynamic - RIP1/RIP2, OSPF

Object
- **Scheduling**: Time Schedule List
- **Grouping**: Host Grouping List
- **Ext. Server**: Email, Syslog, RADIUS, SCEP, FTP, DDNS, IGMP
- **Certificate**: My Certificate, Trusted Certificate, Issue Certificate

Security
- **VPN Tunneling:** IPSec, OpenVPN, PPTP, L2TP, GRE
- **VPN Capability**: IPSec: up to 3 tunnels
- **Firewall:** SPI Firewall with Stealth Mode, IPS
- **Access Control:** Packet Filter, URL Blocking, MAC Filter

Administration
- **Config & Mgmt. :** Web, Telnet & SSL, Command Script, SNMPv3 Std. & Proprietary MIB , TR069
- **System:** Upgrade, Backup & Restore, Reboot & Reset, SysLog
- ***Diagnostic:*** Packet Analyzer, Diagnostic Tools

Service
- **Cellular Toolkit:** Data Usage, SMS, SIM PIN, USSD, Network Scan
- **Event Handling:** User Defined Manage/Notify Event; SMS, Mail, Syslog, SNMP Trap, System HW

Environment
- **OP/Store Temp.:** -30°C ~ 70°C ; -40°C ~ 85°C
- **Humidity:** 10%~95% (non-condensing)
- **Enclosure:** Metal, Bracket
- **Dimension:** 93x90x27mm

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 , EN50385
- Safety: EN 60950-1, EN 62368-1

Package Accessory
- 1*Device
- 2*Cellular Antenna (3dBi) , 1*WiFi Ant.
- 1*Power Adapter DC 5V/2A
- 1*DIN Rail Kit
- 4* Rubber feet, 1*CD (User Manual)
- 1*RJ45 Cable

SKU Information:

IDG500-0T012-00-yy : LTE Cat.4

'yy': Area Variant. As below table

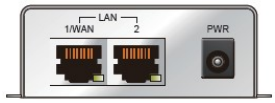
yy	SKU	Band	Module Certi.	System Cert.
E0	EU	B1/3/7/8/20	CE,GCF	CE
R0	Russia	B3/7/20	-	EAC
U0	US	B2/4	PTCRB, AT&T	TBD
J0	Japan	B1/9/18/19/21	Telec , NTT,KDDI	Telec
J1	Japan	B1/8/41	Telec , Softbank	TBD
T0	Taiwan	B3/7/8/28	NCC	TBD
C0	China	B3/8/39/40/41		TBD
A0	Australia	B1/3/5/7/28/40	RCM,	TBD

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

Mechanic Drawing

- ***Front View***

- ***Back View***



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