E-Lins Technology Co.,Ltd
Connecting the Unconnected

M2M IoT In-Vehicle

Machine to Machine

Internet of Things

E-Lins Technology Co.,Ltd

E-Lins Technology Co.,Ltd

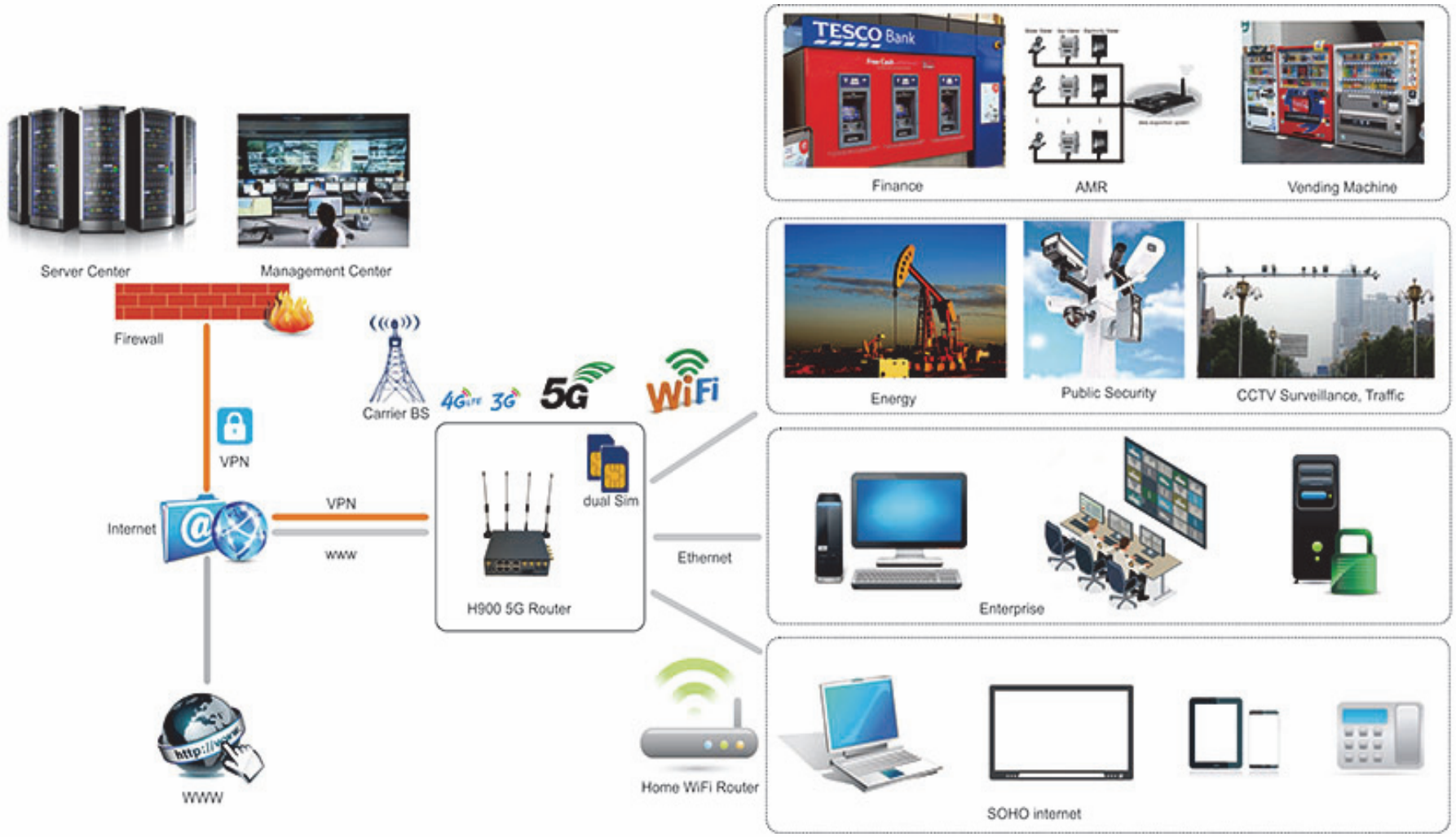
Factory Inside & Factory Office Corner

E-Lins 4G/5G Routers and Modems

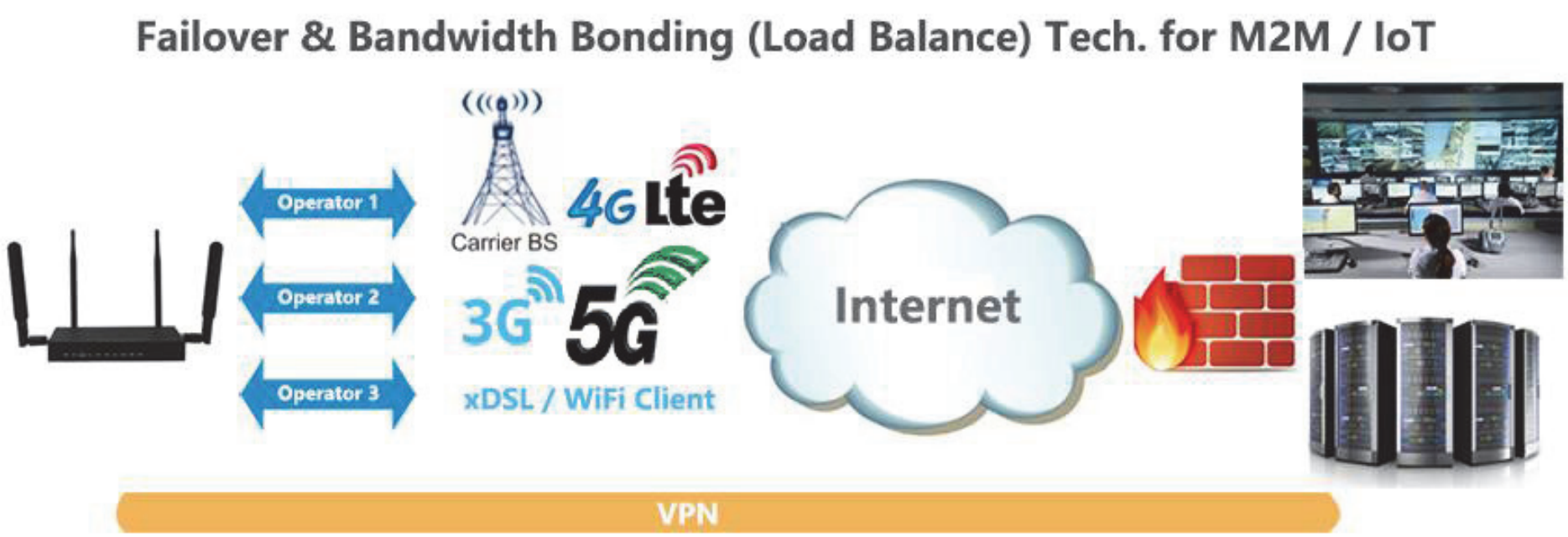
Application Field for Wireless M2M and IoT

- Water, gas and oil flow metering
- Data Monitor and Control
- CCTV, DVR monitor application
- AMR (automatic meter reading)
- Power station monitoring and control
- Remote POS (point of sale) terminals
- ATM machines
- Traffic signals monitor and control
- Fleet management
- Power distribution network supervision
- Central heating system supervision
- Weather station data transmission
- Hydrologic data acquisition
- Vending machine
- Traffic info guidance
- Parking meter and Taxi Monitor
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)
- Other applications

Typical Application Topology



Typical Application Topology



Routers and Modems

E-Lins Industrial Wireless Router & Modem for M2M / IoT / In-Vehicle																
Model	Type	SIM Slot	5G	5G Redcap	4G LTE	Ethernet RJ45	USB	TF	WiFi	High Gain WiFi	Serial	GPS Beidou	DI DO	POE	DC5-60V	Others
H685	Router	1	Y	Y	Y	2	/	/	802.11b/g/n/ac/ax	/	Y	O	Y	O	O	Cute Size
H820	Router	1	/	Y	Y	5	/	/	802.11b/g/n/ac/ax	/	Y	O	/	O	O	
H820Q	Router	1	/	Y	Y	5	/	/	802.11b/g/n/ac/ax	O	Y	O	/	/	O	
H820QO	Router	2	/	Y	Y	2	/	/	802.11b/g/n/ac/ax	O	Y	O	/	O	O	IP68 Outdoor
H750	Router	2	/	Y	Y	3	/	Y	802.11b/g/n	/	Y	O	Y	/	O	
H700	Router	2	/	Y	Y	5	Y	Y	802.11b/g/n/ac	/	Y	O	Y	/	O	Gigabit Ethernet
H900	Router	2	Y	Y	Y	5	Y	/	802.11b/g/n/ac/ax	O	Y	O	Y	O	O	Gigabit Ethernet
H720	Router	2	/	Y	Y	5		/	802.11b/g/n	/	Y	O	Y	O	O	
M400	Modem	1	/	Y	Y	/	1	/	/	/	Y	O	/	/	/	
M300	Modem	1	O	Y	Y	/	1	/	/	/	/	O	/	/	O	
H685m	Modem	1 or 2	Y	Y	Y	1	Y	/	/	/	Y	O	/	O	O	Gigabit Ethernet

Y = supported
O = option
/ = Not supported
Default power input is DC-5-40V wide range
TF = MicroSD card
Serial: RS232 or RS485
DI/DO: digital input and digital output
LTE: CAT0/1/3/4/6/9/12/16/18/20

H685 Mini Size Smart 4G/5G Router

Main

Industrial class, single sim single radio module, one sim card slot;
VPN(PPTP, L2TP, IPsec, GRE, OpenVPN, DMVPN, etc.), SNMP; DDNS, DHCP, NAT/NAPT, Web, Auto-dial, always online, watch-dog, POE;
Cellular/WAN RJ45/WiFi Client supports failover;

Ports: RJ45 LAN * 1 + RJ45 WAN * 1 (WAN can be used as LAN to get two RJ45 LAN)
Option: DI/DO digial Input and Output port, 802.11n/ac/ax WiFi, Serial RS232/RS485, GPS/GNSS, POE, DC input 5V~60V (default is DC5V-40V)

Datasheet

Download Link : http://www.e-lins.com/EN/download/H685-Datasheet-Eng.pdf
Download Link : http://www.e-lins.com/EN/download/H685-5G-Router-Datasheet-Eng.pdf

H820 Series Smart 4G Router

Main

Industrial class, single sim single radio module, one sim card slot;
VPN(PPTP, L2TP, IPsec, GRE, OpenVPN, DMVPN, etc.), SNMP;
DDNS, DHCP, NAT/NAPT, Web, Auto-dial, always online, watch-dog;
Cellular/WAN RJ45/WiFi Client supports cold failover;

Ports: RJ45 LAN * 4 + RJ45 WAN * 1

Option: 802.11n/ac/ax WiFi, Serial RS232/RS485, GPS/GNSS,
DC input 5V~60V (default is DC5V-40V), POE

Datasheet

Download Link : http://www.e-lins.com/EN/download/H820-Datasheet-Eng.pdf

H820Q Smart Dual WiFi 4G Router

Main

Industrial class, single sim single radio module, one sim card slot;
VPN(PPTP, L2TP, IPsec, GRE, OpenVPN, DMVPN, etc.), SNMP;
DDNS, DHCP, NAT/NAPT, Web, Auto-dial, always online, watch-dog;
Cellular/WAN RJ45/WiFi Client supports cold failover;

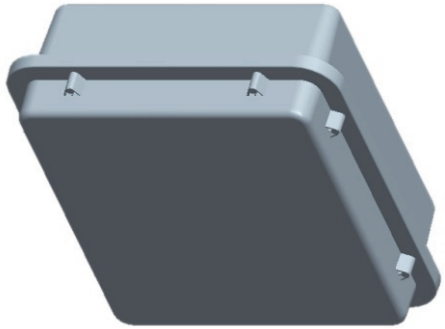
Ports: RJ45 LAN * 4 + RJ45 WAN * 1

Option: Dual Band 802.11n/ac/ax WiFi, Serial RS232/RS485, GPS/GNSS,
DC input 5V~60V (default is DC5V-40V)

Datasheet

Download Link : http://www.e-lins.com/EN/download/H820Q-Datasheet-Eng.pdf

H820QO Outdoor Dual SIM Dual WiFi 4G Router



Main

Industrial class, single sim single radio module, two sim card slots;
IP68 level water-proof and dust-proof;
VPN(PPTP, L2TP, IPsec, GRE, OpenVPN, DMVPN, etc.), SNMP;
DDNS, DHCP, NAT/NAPT, Web, Auto-dial, always online, watch-dog;
Cellular/WAN RJ45/WiFi Client supports cold failover;

Ports: RJ45 LAN * 1 + RJ45 WAN * 1 (WAN can be used as LAN to get two RJ45 LAN)

Option: Dual Band 802.11n/ac/ax WiFi, GPS/GNSS, DC input 5V~60V (default is DC5V-40V)

Datasheet

Download Link : http://www.e-lins.com/EN/download/H820QO-Datasheet-Eng.pdf

H700 Gigabit Ethernet Dual SIM Dual WiFi Router

Main

Industrial class, dual sim dual radio module, two sim card slots.
Two sim for failover redundancy (backup use), load balance;
VPN(PPTP, L2TP, IPSec, GRE, OpenVPN, DMVPN, etc.), SNMP;
DDNS, DHCP, NAT/NAPT, Web, Auto-dial, always online, watch-dog;
Cellular/WAN RJ45/WiFi Client supports cold failover;

Ports: RJ45 LAN * 4 + RJ45 WAN * 1 Gigabit Ethernet, USB, TF (MicroSD)

Option: DI/DO digial Input and Output port, 802.11AC Dual Band WiFi, Serial RS232/RS485, GPS/GNSS, DC input 5V~60V (default is DC5V-40V)

Datasheet

Download Link : http://www.e-lins.com/EN/download/H700-Datasheet-Eng.pdf

H900 Gigabit Ethernet Dual SIM Router

Main

Industrial class, dual sim, two sim card slots.
Two sim for failover redundancy (backup use);
VPN(PPTP, L2TP, IPSec, GRE, OpenVPN, DMVPN, etc.), SNMP;
DDNS, DHCP, NAT/NAPT, Web, Auto-dial, always online, watch-dog;
Cellular/WAN RJ45/WiFi Client supports cold failover;

Ports: RJ45 LAN * 4 + RJ45 WAN * 1, Gigabit Ethernet, USB
Option: DI/DO digial Input and Output port, 802.11n/ac/ax Dual Band or Tri Band WiFi, Serial RS232/RS485, GPS/GNSS, DC input 5V~60V (default is DC5V-40V), POE

Datasheet

Download Link : http://www.e-lins.com/EN/download/H900-Datasheet-Eng.pdf
http://www.e-lins.com/EN/download/H900-5G-Router-Datasheet-Eng.pdf

H720 Series Dual SIM Cellular Router

Main

Industrial class, dual sim dual radio module, two sim card slots.
Two sim for failover redundancy (backup use), load balance;
VPN(PPTP, L2TP, IPsec, GRE, OpenVPN, DMVPN, etc.), SNMP;
DDNS, DHCP, NAT/NAPT, Web, Auto-dial, always online, watch-dog; POE,
Cellular/WAN RJ45/WiFi Client supports cold failover;

Ports: RJ45 LAN * 4 + RJ45 WAN * 1

Option: DI/DO digial Input and Output port, WiFi, Serial RS232/RS485, GPS/GNSS,
DC input 5V~60V (default is DC5V-40V)

Datasheet

Download Link: http://www.e-lins.com/EN/download/H720-Datasheet-Eng.pdf

H750 Series Dual SIM Cellular Router

Main

Industrial class, dual sim dual radio module, two sim card slots.
Two sim for failover redundancy (backup use), load balance;
VPN(PPTP, L2TP, IPsec, GRE, OpenVPN, DMVPN, etc.), SNMP;
DDNS, DHCP, NAT/NAPT, Web, Auto-dial, always online, watch-dog; POE,
Cellular/WAN RJ45/WiFi Client supports cold failover;

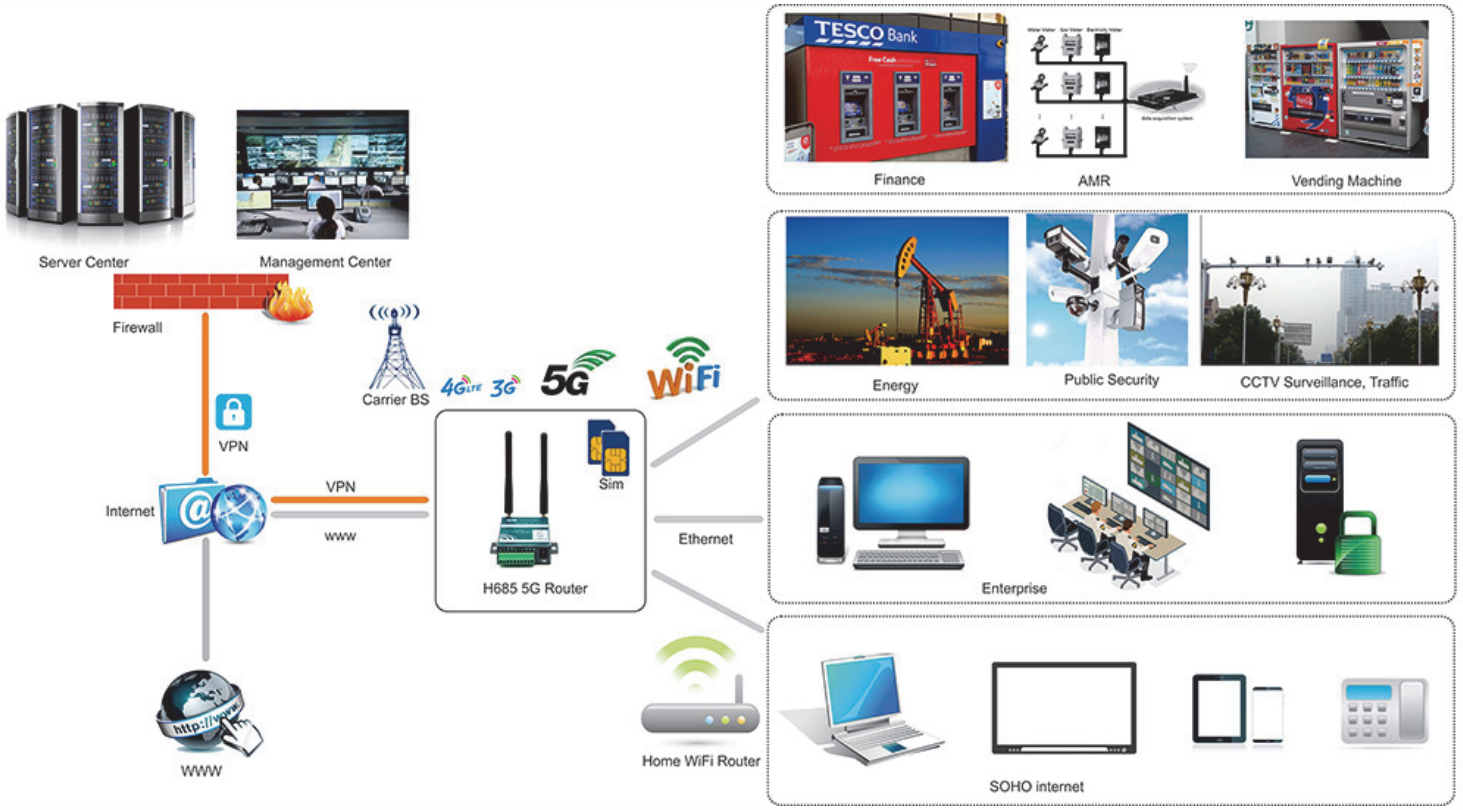
Ports: RJ45 LAN * 2 + RJ45 WAN * 1

Option: DI/DO digial Input and Output port, WiFi, RS232/RS485, GPS/GNSS,
DC input 5V~60V (default is DC5V-40V)

Datasheet

Download Link : http://www.e-lins.com/EN/download/H750-Datasheet-Eng.pdf

Typical Application Diagram



M300 Series Cellular Modem

Type

Industrial class, single sim single radio module, one sim card slot. USB port.

Datasheet

Link1: http://www.e-lins.com/EN/download/M300-Datasheet-Eng.pdf

M400 Series Cellular Modem

Type

Industrial class, single sim single radio module, one sim card slot. Serial port, or serial + USB port

Datasheet

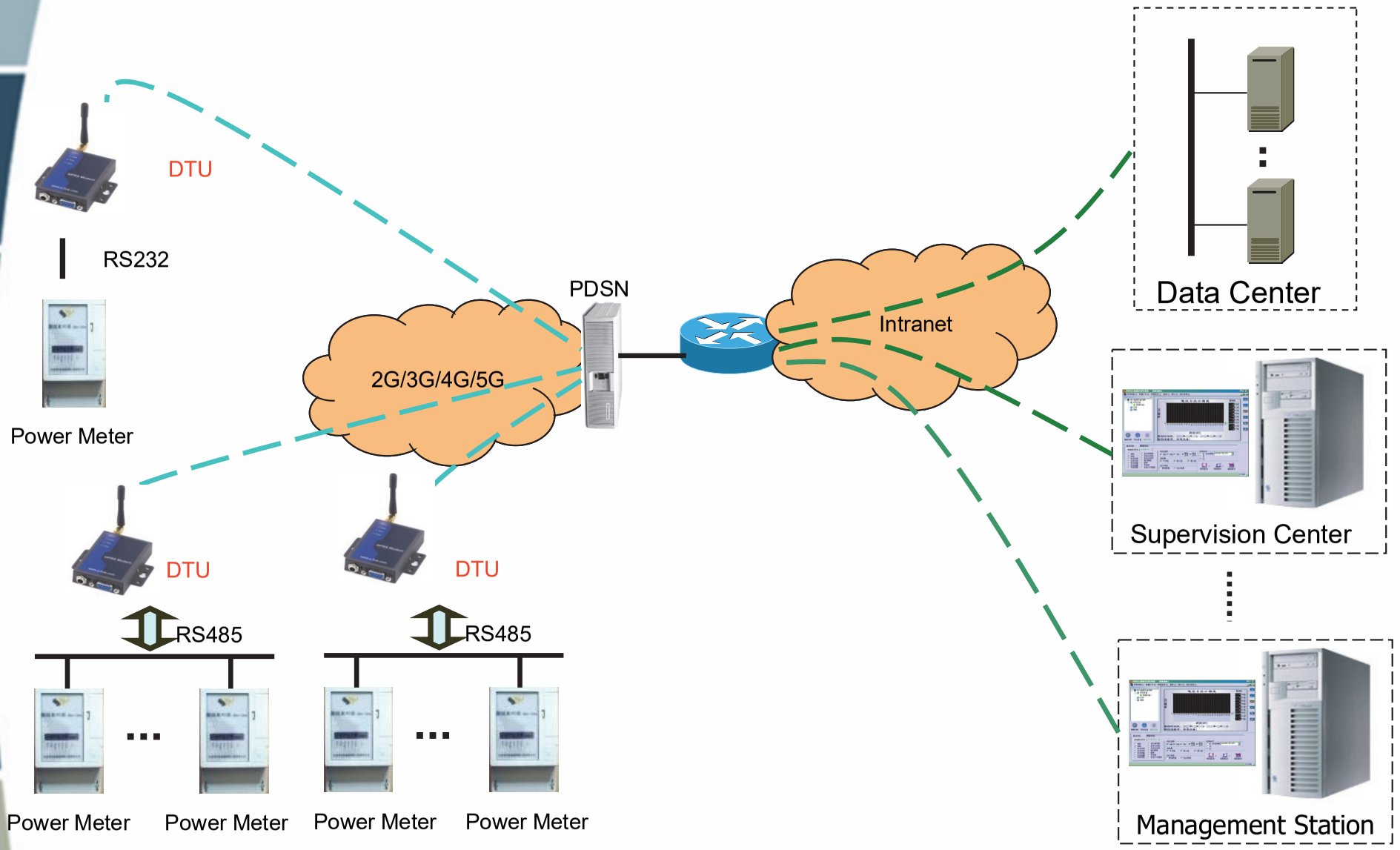
Link1: http://www.e-lins.com/EN/download/M400-Datasheet-Eng.pdf

Difference between DTU Modem & Normal Modem

Item	DTU Modem (Serial to Cellular Gateway)	Normal Modem
Dial up	Support automatically dialup; Online always; trigger to dialup, schedule to dialup	Need back platform to dialup
TCP/IP, PPP	Yes	Yes
Interface	RS232/RS485	RS-232
Bandwidth	20~40Kbit/s	20~40Kbit/s
Coverage	Same as GSM network	Same as GSM network
Transparent Data	Yes	No
VDPN	Yes	Yes
Point to Point	Yes	Depends network
Point to Multipoint	Yes	No
Center to Multipoint	Yes	No
Dynamite IP Address Mapping	Yes	No
Multi-protocol	Yes	No
Applications	Utilities, traffic control, finance and industry supervision	Mobile Internet access for PC

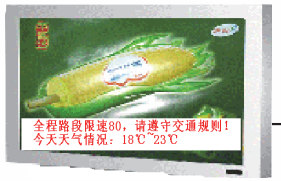
DTU (Serial to Cellular Gateway)

Series and Models	Supported Ports	Supported Networks	Configure Method
H685 with DTU	RJ45 + RS232 / RS485 / TTL	2G / 3G / 4G LTE / 5G	GUI Web / Telnet / SSH Remote Management System
H820 with DTU	RJ45 + RS232 / RS485 / TTL	2G / 3G / 4G LTE	GUI Web / Telnet / SSH Remote Management System
H820Q with DTU	RJ45 + RS232 / RS485 / TTL	2G / 3G / 4G LTE	GUI Web / Telnet / SSH Remote Management System
H700 with DTU	RJ45 + RS232 / RS485 / TTL	2G / 3G / 4G LTE	GUI Web / Telnet / SSH Remote Management System
H750 with DTU	RJ45 + RS232 / RS485 / TTL	2G / 3G / 4G LTE	GUI Web / Telnet / SSH Remote Management System
H720 with DTU	RJ45 + RS232 / RS485 / TTL	2G / 3G / 4G LTE	GUI Web / Telnet / SSH Remote Management System
H900 with DTU	RJ45 + RS232 / RS485 / TTL	2G / 3G / 4G LTE / 5G	GUI Web / Telnet / SSH Remote Management System


DTU
RS232
Power Meter
2G/3G/4G/5G
PDSN
Intranet
Data Center
Supervision Center
Management Station
DTU
DTU
RS485
RS485
Power Meter
Power Meter
Power Meter
Power Meter

LED Screen of crossing

DTU



LED Screen of road

DTU

2G/3G/4G/5G

Internet

LAS

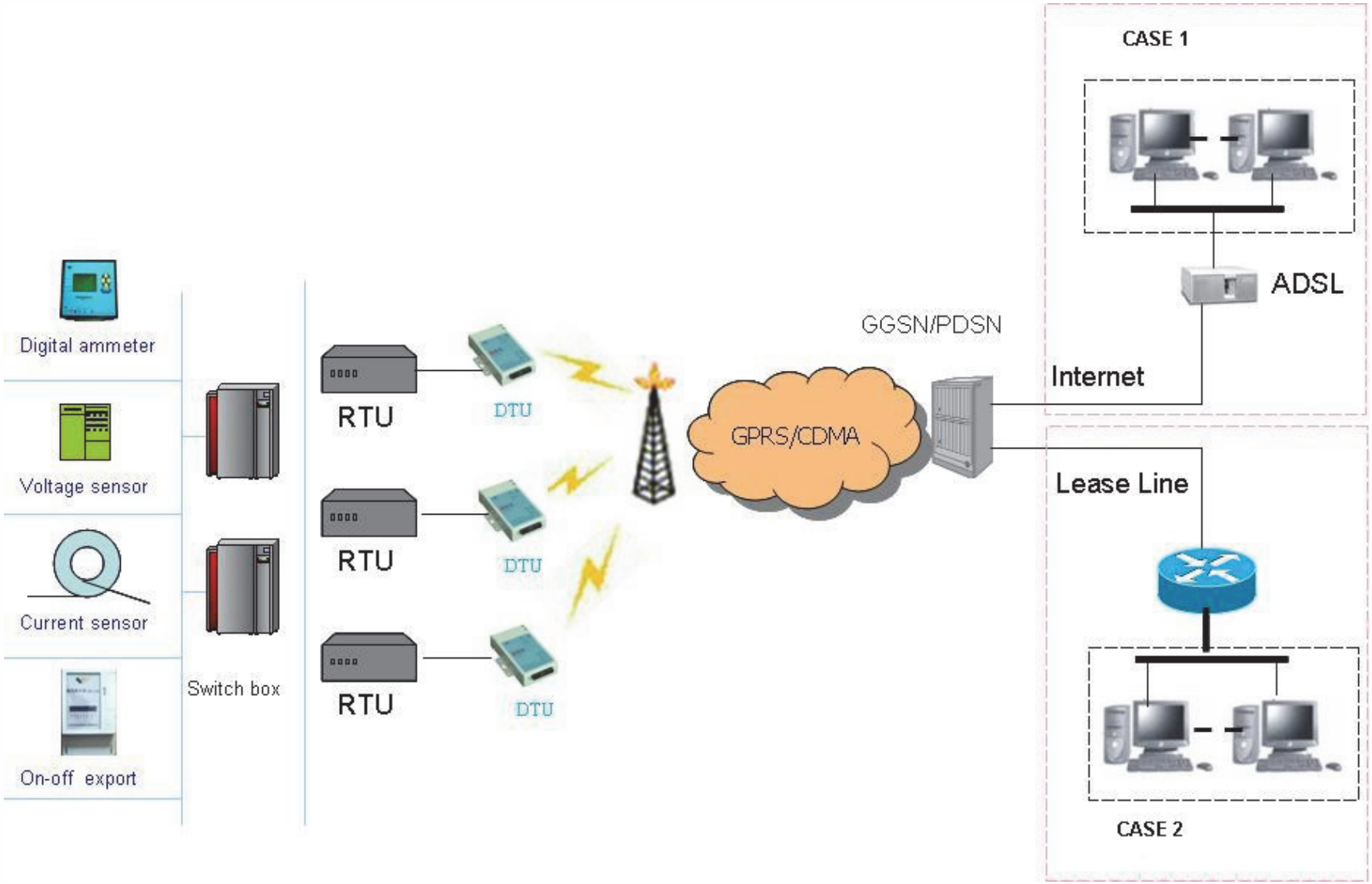
Modem

LED control center

SMS

LED Screen of highway

DTU


CASE 1
ADSL
GGSN/PDSN
Internet
Digital ammeter
Voltage sensor
Current sensor
On-off export
Switch box
RTU
DTU
RTU
DTU
RTU
DTU
GPRS/CDMA
Lease Line
CASE 2