伊林思科技有限公司
E-Lins Technology Co.,Limited

H750ev Dual SIM EVDO Router Datasheet

>>| Product Introduction

The H750ev dual sim EVDO Cellular Router is designed for establish a 2G/3G CDMA2000 EVDO cellular wireless network and share a cellular broadband internet connection. The H750 series Cellular Router enables users to quickly create a secure Wi-Fi (802.11 b/g/n) network and provide access to the internet using a cellular network. By connect to cellular broadband network; an internet connection can be accessed and shared virtually anywhere within a wireless broadband network.

E-Lins' mobile data products are widely used in more than twenty industrial fields, such as power control, water schedule, traffic, oil field, weather forecast, environmental protection, street lamp control, post, bank and many other areas.

>>| Hot Spot for Dual SIM

H750 series is with single module two sim cards
A1) work with one sim card.
A2) work with two sim card. Two sim card backup each other (cold standby for failure backup).
    Nine working modes:
    1) SIM1 only
    2) SIM2 only
    3) SIM1 preferred
    4) SIM2 preferred
    5) Fail Switch SIM1 First
    6) Fail Switch SIM2 First
    7) Advance Data Traffic SIM1 First
    8) Advance Data Traffic SIM2 First
    9) Cell on time traffic

Two sims can be any type from 2G/3G/4G at
GPRS/EDGE/HSDPA/HSUPA/HSPA/HSPA+/LTE/CDMA1x/CDMA2000 EVDO. (Please confirm the type before

order)

Main:
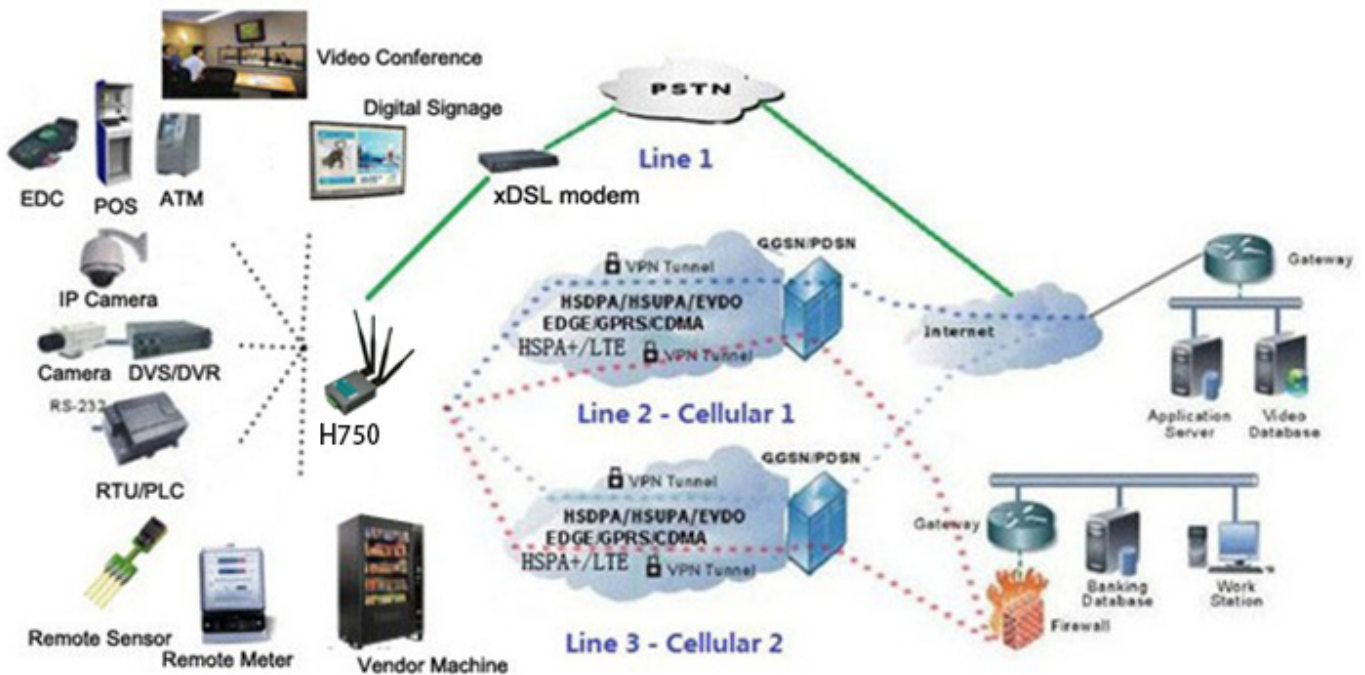
Built-in 2G/3G/4G industrial cellular module, insert SIM/UIM card to work directly;

Built-in two sim card slots;

RJ45 LAN *3;

RJ45 WAN *1;

Option feature:

1. WiFi
2. GPS
3. Serial to cellular gateway (RS232 or RS485 port)
4. Internal battery (model H700)

Redundancy backup: cellular1+ cellular 2+ WAN RJ45

>>| Typical Topology

>>| Industrial Application

- Remote Data Monitor and Control
- CCTV, security surveillance
- Water, gas and oil flow metering and schedule
- AMR (automatic meter reading)
- Power station monitoring and control
- Remote POS (point of sale) terminals, ATM
- Traffic signals monitor and control, Traffic info guidance
- Oil field, weather forecast, environmental protection, street lamp monitoring and control
- Early Warning of Mountain Torrent
- Fleet management
- Power distribution network supervision
- Central heating system supervision
- Weather station data transmission
- Hydrologic data acquisition
- Vending machine
- Telemetry, SCADA
- Vehicle logistics and diagnostics controlling
- Parking meter and Taxi Monitor
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)

>>| Specification

Wireless	
Compatible Mobile Networks	CDMA2000 EVDO Rev 0, Rev A, Rev B CDMA1x
Cellular Frequency	CDMA1x/EVDO: 800/1900Mhz, option for 450Mhz; 450Mhz band support options: Block Designator A – Band Subclass 0 Block Designator B – Band Subclass 1 Block Designator C – Band Subclass 2 Block Designator D – Band Subclass 3 Block Designator E – Band Subclass 4 Block Designator F – Band Subclass 5 Block Designator G – Band Subclass 6

	Block Designator H – Band Subclass 7 Block Designator I – Band Subclass 8 Block Designator J – Band Subclass 9 Block Designator K – Band Subclass 10 Block Designator L – Band Subclass 11 Other band… Notes: There are different block designators for 450Mhz. Please confirm the detailed band and frequency with your carriers before order.
Bandwidth	CDMA2000 EVDO: Rev B: 14.7Mbps downlink, 5.4Mbps uplink Rev A: 3.1Mbps downlink, 1.8/2.4Mbps uplink Rev O: 2.4Mbps downlink, 153.6kbps uplink CDMA1xRTT(IS-2000): Downlink/Uplink 153.6kbps; Notes: the bandwidth is peak value. Real value depends on carrier network support.
Network and Band Lock Feature (Option)	Default is unlocked, can use this feature to lock

Main Features and Performance

USB Host	No, can ODM
SMS/Voice	SMS/Voice call to control router to be online, offline, reboot and status monitor; SMS is default feature, Voice is option
GPS (Option)	GPS feature
DTU (Option)	With DTU feature (Serial to Cellular Gateway feature, RS232 or RS485 port option). Details: Serial Baudrate: 300bps, 600bps, 1200bps, 2400bps, 4800bps, 9600bps, 19200bps, 38400bps, 57600bps, 115200bps; Serial Parity: none, even, odd; Serial Databits: 7, 8; Serial stopbits: 1, 2; Serial flow control: none, hardware, software; Mode: Server (up to 4 server centre, can OEM to be more), Client; Protocol: TCP, UDP ;

	Heart Beat : Yes;
VPN	PPTP, L2TP, IPSec, GRE, Tunnel (PPTP server, PPTP client, L2TP client, IPSec client, IPsec server)
OpenWRT (Option)	Optional
VRRP (Option)	Optional
Route	Static Route; Optional for Dynamic Route (BGP, BGPD, OSPF, Zebra, Rip);
SNMP	Support V1, V2. V3
VLAN	Support multi-LAN IP address, support two IP address
Wi-Fi	Optional, 802.11b/g/n; 300Mbps. Can be used as AP and client; Frequency from 2.4GHz to 2.483GHz,Access Points, Routers and Gateway Server Applications, wireless up to 254 PC users
Fail Over Redundancy (network Backup feature)	Auto-dial feature, keep alive link; LCP, ICMP check; Built-in watch dog; Dual cellular (2G/3G/4G), RJ45 WAN (xDSL, DHCP, Fixed IP), WiFi client four line redundancy; Cold Backup is default, Hot Backup is option; Cold Backup=WAN RJ45 and Cellular WAN not online at the same time. One line online and the other line standby, switch freely with triggers; Hot Backup=WAN RJ45 and Cellular WAN are online at the same time. Data goes the main line, and switch to the other line. Hot Backup switch time is shorter than Cold Backup.
POE (option)	POE for LAN/WAN RJ45 (use with POE adapter)
Firmware update	support firmware update locally or remotely (LAN, WiFi and OTA WAN)
Syslog	local and remote
DDNS	Yes
DHCP Server	Yes
Internal Battery	Optional (8000mAH, 4000mAH *2, model name is H700)

Others	DNS proxy; Optimized EMC design; Real-time clock (NTP, support update with defined hours); WAN/LAN/Memory statistics; Local/remote profiles backup and retrieve;
Remote Management System	Option

Protocol

Protocol support	TCP, UDP, SMTP, POP, ICMP, FTP, PPP, PPPoE, DHCP, DDNS, DNS, WPS, DMZ, NAT, xDSL, NTP, QoS, etc.

Security

Firewall	support 64/128 bits WEP, 802.1x, WPA, and WPA2 support WDS support WPA1/2 – PSK support WPA1/2 – 802.1x support EAP – TLS, TTLS, LEAP, PEAP TKIP, AES encryption support access with user name & password. support access control base WAN/LAN interface support access control base source IP address defense DOS attack, support SYN flooding, IP surfing, ping of Death, fragile, teardrop, land etc. support PAP & CHAP support IP filtering support content filtering support NAT/NAPT/Port forwarding/DMZ

Interface

LAN/WAN	3X 10/100M LAN port (RJ45 interface) 1X 10/100M WAN port (RJ45 interface) WAN ports support Cell/Static IP/DHCP/PPPoE (on demand, keep alive, schedule, manual)
Antenna	5 X antenna (50Ω SMA female interface, detachable): Wi-Fi*2; Cellular*2; GPS*1; Cellular support MIMO(Diversity Receiving);

	WiFi support MIMO (Diversity Receiving);
Led	SYS WiFi Cell1 Cell2 Cell Signal1 Cell Signal2 LAN (10/100M) 1, 2, 3 WAN CHR (Internal battery charging) (for version supports internal battery)
Button	Reset
Console	1 console port (also can be used as M2M port)
Serial port	RS232 or RS485 with DB9 and Terminal Block interface
IO Port (option)	2
Management	Easy to use and management; Web/Telnet/SSH/CLI, support remote management SMS; SNMP; RMS (Remote Management System)
At command	Supported
UIM/SIM Card Slot	Support 1.8V/3V UIM/SIM cards, two sim card slot
DC Jack	Two types of input jack for DC 2.5mm DC jack * 1 Terminal Block * 1
Power	
Power supply	DC5V-50V , typical DC 9V1A or 12V1A, 12v CAR USE; DC5V~40V is the default, DC5V~50V is the option
Current	Idle: about 140mA@12VDC Communication: about 300mA@12VDC
Software	
Device Management	WEB interface (Internet Explorer v6 or Later; Mozilla Firefox v1.5 or Later, or other Java-enabled Browsers, Chome, Opera, Sarafi, etc.)

Minimum System Requirements	Windows, Linux, Mac OS, IOS, Symbian, Android, other OS support web browser; Network Interface Card
Physical	
Operating Temperature	Storage Temperature: -40 ~ 85°C Working Temperature: -30 ~ 75°C
Humidity	95% Maximum (Non-condensing)
Dimensions	PCBA: 100mm x 80mm x 22mm With case: 102mm x 87mm x 35mm
Weight	330g (not including the antenna)
Color	Metal Gray-Black, OEM is available
Others	
Warranty	1 Year default. Option extends to 5 years maximum.
Package Contents	H750 Series wireless Router Ethernet Cable Power Adapter Antenna Others depends on option features

>>| H750 model and types

H750 x - - - XXX (option)

W: WiFi WLAN

G: GPS

RS232/RS485: DTU feature (cellular to serial), RS232 or RS485 for choice

50V: DC input 5~50V support, default is 5~40V

B: internal rechargeable battery

t: 4G LTE version. Support FDD LTE or TDD LTE or FDD+TDD LTE, back compatible to 3G and 2G

w: 3G WCDMA HSPA version, support HSUPA/HSDPA/UMTS/EDGE/GPRS/GSM

p: 3G WCDMA HSPA+ version, support HSPA+/HSUPA/HSDPA/UMTS/EDGE/GPRS/GSM

eva: 3G CDMA2000 EVDO version, support EVDO RevA/EVDO Rev0/CDMA1x

evb: 3G CDMA2000 EVDO version, support EVDO RevB/EVDO RevA/EVDO Rev0/CDMA1x

td: 3G TD-SCDMA version, support TD-HSUPA/TD-HSDPA/TD-SCDMA/EDGE/GPRS/GSM

Notes:

1) option feature can be select one or all

2) for LTE version, please confirm your LTE band and Network Carrier with order to avoid wrong selection

Notes:
1. Please confirm the exact model and type before your order.

>>| Accessories

- The H750 Series wireless Router
- Ethernet Cable
- Power Adapter
- Antenna
- Others depends on the option features

DB15 to DB9 Cable DB9 serial cable RJ45 to DB9 Cable USB Cable

EU Power Supplier US Power Supplier AU Power Supplier Desktop Power Supplier UK Power Supplier
EU, US, AU, UK for choice

Metal Mangetic-Mount W/ Cable Rubber antenna Rubber Mangetic-Mount W/ Cable CD-Rom with Manual/Data

Notes:

1) We packed the units with free accessories; default packed depends on stock and the device's feature requirement. If you need specify the type, please inform us when you order.

2) Different places have different band and frequency. Signal quality affects the data speed. The antenna in the packages is free default. It's a world-wide use type. Our free antenna may not get good signal or good speed in your area. Please get the dedicated antenna for your area yourself to get the best signal and data speed.

3) E-Lins has high gain antenna for option.