EL-H650 Industrial CDMA VPN Router Datasheet

>>| Product Introduction

The EL-H650 series VPN CDMA Cellular Router designed for establish a cellular broad band Internet connection. The EL-H650 series VPN CDMA Cellular Router enables users to quickly create a secure network and provide access to the Internet using a cellular network. By connect to CDMA & DSL 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 50 countries and regions, and 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.

H650 key feature:
WAN (xDSL) and CDMA backup each other
Dual SIM with dual mode backup each other
Dual SIM work together to bind the two network to increase the speed

>>| 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)

>>| Basic Features

➢ Supports multi-band GSM, GPRS, CDMA network
➢ SMA Standard antenna
➢ Optimized EMC design
➢ Always on line: On-line detection and automatic redial and keep-alive while the line dropped
➢ Wide range power input
➢ Smart power management
➢ Reliable, flexible, easy to use and management
➢ Ethernet and RS-232/485 interface

>>| Enhanced Features

➢ Real-time clock
➢ Built-in DHCP server
➢ Supports NAT and DMZ host
➢ Supports DDNS
➢ Supports Static routing table
➢ Supports packet filter
➢ Built-in multi-routing backup (Ethernet and dialup network)
➢ System and network monitoring
➢ WAN interface traffic statistics
➢ Support multiple protocol conversion
➢ Transparent data transmission (DTU feature)
➢ WEB/Telnet/console management interface
➢ Support radio network data envelope counting
➢ Self-diagnostic and alarm output
➢ Local/remote profiles backup and retrieve
➢ Local/remote firmware upgrade
➢ Remote web management
➢ Urgent event alarm via SMS optional
➢ Firewall, packet filtering
➢ Support data center communication

>>| Enhanced Features

➢ Multi-level link detection and redial, keep the traffic channel alive

1. PPP detection

2. Local and remote ICMP detection

3. Heart-beat detection

4. WAN interface traffic detection

➢ On/off line control

1. Auto or manual dial

2. Timing on/off line control

➢ Flexible data communication

1. Supports layer 2 and 3 data communication

2. Supports RS-232 transparent communication:

　　UDP/IP or TCP/IP Client/Server

3. Supports both RS-232 and Ethernet communication

➢ Configuration and remote management

1. Multi-language web based configuration interface (local or remote)

2. Supports Telnet local or remote operation

3. CLI operation

➢ Virtual online technology（VKL, only CDMA）

1. Release wireless network channel while there is no user's data traffic

2. Keep the router online logically when the wireless channel released

3. The router will immediately restore to the connected status without any redial or authentication if there is any data transmitted

>>| Specification

Wireless	
Compatible Mobile Networks	• CDMA1x
Cellular Frequency	• CDMA800/1900 or 450Mhz
Bandwidth	CDMA: 230Kbps~460kbps (maximum)
Wi-Fi	• No
Protocol	
Protocol support	TCP, UDP, SMTP, POP, ICMP, FTP, PPP, PPPoE, DHCP,

	DDNS, DNS, WPS, DMZ, Syslog, NAT, xDSL, NTP, QoS, support firmware update
VPN	VPN, PPTP, IPsec

Security	
Security	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 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
Advanced Firewall Features	Network Address Translation (NAT) Stateful Packet Inspection (SPI) VPN Pass-through
Media Access Control	CSMA/CA with ACK
Certifications	REDIUS Client

Interface	
LAN	1X 10/100M LAN port (RJ45 interface) 1X 10/100M WAN port (RJ45 interface)
Antenna	1X antenna for Wi-Fi (SMA interface) 1X antenna for VPN CDMA (50Ω SMA female interface)
Led	▪ Power ▪ Run ▪ WAN (Mobile Internet Connection) ▪ LAN (10/100M) ▪ VPN ▪ Link ▪ Act
Button	Reset

Configuration interface	Web/Telnet or RS-232
UIM/SIM	1.8V/3V

Power	
Power supply	DC5V-25V , typical DC12V2A, 12v CAR USE
Power consumption	• Idle: 20mA@12VDC • Max: 300mA@12VDC • Average:130mA@12VDC

Software	
Device Management	• WEB interface (Internet Explorer v6 or Later; Mozilla Firefox v1.5 or Later, or other Java-enabled Browsers)
Minimum System Requirements	Mobile Internet Access Subscription and Internet PC Adapter Computer with: • Windows Vista , Windows XP SP2, Windows 2000 SP4, or Mac OS® X (v10.4/v10.3), Linux • Internet Explorer 6 or Mozilla Firefox • CD-ROM Drive • Network Interface Card

Physical	
Operating Temperature	• Storage Temperature: -40 ~ 85°C • Working Temperature: -30 ~ 75°C • Humidity: 95% (non-condensing)
Humidity	95% Maximum (Non-condensing)
Dimensions	133mm x 94mm x 34mm
Weight	800g (contain the antenna)

Others	
Warranty	1 Year
Package Contents	• The H650 Series VPN CDMA wireless Router • CAT5 Ethernet Cable

- DC12V1A   Power Adapter
- Antenna
- CD-ROM with Product Documentation

Model:

H650s : single sim
H650d: dual sim