

H880 Cellular Router Datasheet



>>| Product Introduction

The EL-H880 series Cellular Router designed for establish a Wi-Fi wireless network and share a cellular broad band Internet connection. The EL-H880 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 mobile 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.

>>| Key Point

1. 1 WAN RJ45 port + 4 LAN RJ45 port
2. VPN (PPTP, L2TP, IPSec)
3. standard SMA antenna can be replaced with high gain type
4. WiFi 802.11b/g/n
5. RJ45 WAN (xDSL) and Cellular backup each other (Route Fail Over Feature)
6. Two H880 can backup each other if one H880 line failed. (to be Dual sim dual mode feature)
7. Always online, Reboot if the connection is failed.
8. Support two LAN IP address (VLAN feature)

>>| Typical Topology



>>| Specification

Wireless	
Compatible Mobile Networks	<ul style="list-style-type: none"> • UMTS WCDMA (HSUPA/HSDPA/HSPA/HSPA+) • GSM EDGE • GSM GPRS • CDMA1x • CDMA EVDO Rev 0 and Rev A • 4G LTE
Cellular Frequency	<ul style="list-style-type: none"> • UMTS/HSPA/HSUPA/HSPA/HSPA+ (WCDMA/FDD) 850/1900/2100 MHz or 850/900/1900/2100Mhz • Quad-band EGSM 850/900/1800/1900 • CDMA1x/EVDO: 800/1900Mhz or 450Mhz optional • 4G LTE: 700/2100MHz, 1800/2600MHz

Bandwidth	<ul style="list-style-type: none"> • HSPA+ Downlink 21/42Mbps Uplink 5.76Mbps • HSPA Downlink 14.4Mbps Uplink 5.76Mbps • HSUPA Downlink 7.2Mbps Uplink 5.76Mbps • HSDPA Downlink 7.2 Mbps Uplink 384k bps • WCDMA/UMTS Downlink/Uplink 384 kbps • EDGE Downlink 236,8 kbps Uplink 118 kbps • GPRS Downlink 85.6 kbps Uplink 42.8 kbps • CDMA1x Downlink/Uplink 153.6kbps • CDMA EVDO Rev A: 3.1Mbps downlink, 2.4Mbps uplink Rev O: 2.4Mbps downlink, 153.6kbps uplink • 4G LTE Max. 100Mbps downlink, 50Mbps uplink
USB Host	No
SMS/Voice (optional)	SMS/Voice call to control router to be online and offline
GPS (Optional)	With GPS feature
VPN	PPTP, L2TP, IPSec (PPTP client, L2TP client, IPSec client, IPsec server)
VLAN	Support multi-LAN IP address
Wi-Fi	<ul style="list-style-type: none"> • 802.11b/g/n; Frequency from 2.4GHz to 2.483GHz, Access Points, Routers and Gateway Server Applications, wireless up to 32 PC users
Fail Over (network Backup feature)	<ul style="list-style-type: none"> • Cellular to Line xDSL backup • Line xDSL to cellular backup • WiFi client mode DHCP to Cellular backup

	<ul style="list-style-type: none"> Cellular to WiFi client mode backup Two H880 dual sim same network (WCDMA1+WCDMA1) Two H880 dual sim two network (WCDMA2+WCDMA2) Two H880 dual sim dual mode network (WCDMA+CDMA2000)
Protocol	
Protocol support	TCP, UDP, SMTP, POP, ICMP, FTP, PPP, PPPoE, DHCP, DDNS, DNS, WPS, DMZ, Syslog, NAT, xDSL, NTP, QoS, support firmware update
Security	
Security	<p>support 64/128 bits WEP, 802.1x, WPA, and WPA2</p> <p>support WDS</p> <p>support WPA1/2 – PSK</p> <p>support WPA1/2 – 802.1x</p> <p>support EAP – TLS, TTLS, LEAP, PEAP</p> <p>TKIP, AES encryption</p> <p>support access with user name & password.</p> <p>support access control base WAN/LAN interface</p> <p>support access control base source IP address</p> <p>defense DOS attack, support SYN flooding, IP surfing, ping of Death, fragile, teardrop, land etc.</p> <p>support PAP & CHAP</p> <p>support IP filtering</p>
Advanced Firewall Features	<p>Network Address Translation (NAT)</p> <p>Stateful Packet Inspection (SPI)</p> <p>VPN Pass-through</p>
Media Access Control	CSMA/CA with ACK
Certifications	REDIUS Client
Interface	
LAN	<p>4X 10/100M LAN port (RJ45 interface)</p> <p>1X 10/100M WAN port (RJ45 interface)</p>
Antenna	<p>1X antenna for Wi-Fi (SMA interface)</p> <p>1X antenna for Cellular (50Ω SMA female interface)</p>
Led	<ul style="list-style-type: none"> Power SYS

	<ul style="list-style-type: none"> • WAN • LAN (10/100M) 1, 2, 3, 4 • WLAN • Cellular
Button	WPS, Reset
Console (RS232)	1 console port (also can be used as M2M port) optional
UIM/SIM Card Slot	Support 1.8V/3V UIM/SIM cards
Power	
Power supply	DC7V-30V , typical DC 9V1A or 12V2A, 12v CAR USE
Power consumption	<ul style="list-style-type: none"> • Idle: 30mA@12VDC • Max: 400mA@12VDC • Average:200mA@12VDC
Software	
Device Management	<ul style="list-style-type: none"> • WEB interface (Internet Explorer v6 or Later; Mozilla Firefox v1.5 or Later, or other Java-enabled Browsers,Chome,Opera,Safari)
Minimum System Requirements	Mobile Internet Access Subscription and Internet PC Adapter Computer with: <ul style="list-style-type: none"> • Windows 7, 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	<ul style="list-style-type: none"> • Storage Temperature: -40 ~ 85°C • Working Temperature: -30 ~ 75°C • Humidity: 95% (non-condensing)
Humidity	95% Maximum (Non-condensing)
Dimensions	158mm x 106mm x 27mm
Weight	470g (not including the antenna) 500g (including the antenna) 920g (including all accessories)

Others		
Warranty	1 Year	
Package Contents	<ul style="list-style-type: none"> • The H880 Series wireless Router • CAT5 Ethernet Cable • DC12V1A Power Adapter • Antenna • CD-ROM with Product Documentation 	
Model	Marks	Optional
H880d	HSDPA Router, work under HSDPA/EDGE/GPRS/GSM networks	GPS, Voice/SMS control
H880u	HSUPA Router, work under HSUPA/HSDPA EDGE/GPRS/GSM networks	GPS, Voice/SMS control
H880p	HSPA Router, work under HSPA/HSUPA/HSDPA EDGE/GPRS/GSM networks	GPS, Voice/SMS control
H880p+	HSPA+ Router, work under HSPA+/HSPA/HSUPA/HSDPA EDGE/GPRS/GSM networks	GPS, Voice/SMS control
H880ev	EVDO Router, work under EVDO/CDMA1x networks	GPS, Voice/SMS control
H880t	4G LTE Router, work under 4G LTE and back compatible to HSPA+/HSPA/HSUPA/HSDPA EDGE/GPRS/GSM networks	GPS, Voice/SMS control

Notes: please inform us if you GPS and Voice/SMS control before order.