H50 4G Routers specification

Introduction

H50 series mobile wide-band router is a kind of internet of things wireless communication router, use WCDMA/HSUPA/HSPA+、EV-DO、LTE, etc ,to provide convenient and high speed network transmission function.

This series of product uses high performance industrial 32 bit communication processor, flush bonding real-time operation system as software supporting platform. It provides safe, high speed, stable 4G wireless network, and provides 4LAN, 1WAN, RS-485/232 and WIFI interface.

It can be used in finance, postal, smart power grids, smart transportation, environment monitor, fire protection monitor, security, water conservancy, public safety, advertising release, industrial control earth quake monitor, meteorological watch, instrument monitor.etc



Features

Industrial design

- Use high performance industrial wireless module
- Use high performance industrial 32bit processor
- Support low power consumption
- Support mode customized
- Use plate metal CRS shell, heat dissipation is good
- Power source：7.5V~26V DC（extended to be 36V）
- Degree of protection：IP34（ Max IP51）

Network characteristic

- Port flow detection
- Link real time monitoring
- Various VPN protocol（PPTP, L2TP, IPSec, VPN）
- Serial port DTU function supporting
- Support dial as required (audio, SMS, or data trigger)
- Support UPnP

Stability

- Use soft hardware watchdog and multi-level link detection , with capability of fault automatic diagnosis, automatic recovery, ensure equipment to work in stable and safe way
- Multiple equipment self-checking mechanism
- ESD protection for each port, prevent static shock
- Wireless network signal indicator light

Remote management

- Remote parameter configuration
- Remote parameter backups
- Remote restart and log query
- Remote equipment upgrade
- Equipment online monitoring

Powerful function

Down compatible 3G HSPA+/2G GPRS, EDGE

Support 1*WAN+4*LAN, provide 1*RS232/485 interface

Support WIFI, IEEE802.11b/g/n

Support wired and wireless network mutual backups

Support hardware WDT, provide anti-log off mechanism, ensure data terminal online forever

Support PPTP, L2TP, GRE, various VPN protocol

Support SNMP management protocol

Support DHCP, DDNS, firewall, NAT, and DMZ

Support ICMP, TCP, UDP, Telnet, FTP, HTTP, HTTPS protocol

Support SIM/UIM card design

Support dual mode + dual SIM(optional)

Support single mode + dual SIM(optional)

Support GPS / beidou positioning【optional】

Specification

Wireless

Wireless module:	Industrial wireless module
Frequency range:	FDD-Band 1 / 2 / 3 / 5 / 7 / 8 / 20 / 28 (Band 1/ 2 / 4 /5 / 7 / 8 / 12 / 13 / 17 / 25 / 26) TDD- Band 38 / 39 / 40 / 41 WCDMA/GSM/GPRS/EDGE CLASS 12
Theory bandwidth:	FDD-MAX DL: 100Mbps ; MAX UL: 50Mbps （Category 3, MIMO） TDD-MAX DL: 61Mbps ; MAX UL: 18Mbps
Transmitted power:	<24dBm
Receive sensitivity:	<-109dBm

WIFI

Standard:	Support IEEE802.11b/g/n ， Max 150Mbps(optional for 300Mbps)
Security Encryption:	Support WEP、WPA、WPA2， optional WPS function
Transmitted power:	16-17dBm（11g），18-20dBm（11b）15dBm (11n)
Receive sensitivity	<-72dBm@54Mpbs

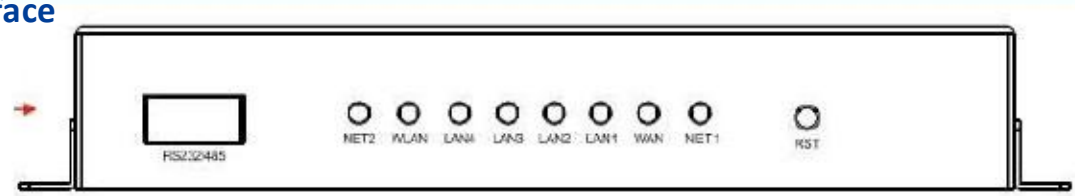
Interface type

LAN:	4 * LAN Ethernet interface（RJ45），self-adaption MDI/MDIX, built-in electromagnetism insulation blocking
WAN:	1 * WAN interface， self-adaption MDI/MDIX, built-in electromagnetism insulation Blocking
Industrial interface:	1 * RS485/RS232 port，
Indicator light:	4 indicator light,“WLAN”、“WAN”、“LAN”、“NET, NET is three-color light
Antenna interface:	3 standard SMT antenna port（WIFI/GPS and 2 X 3G），50 ohm
SIM/UIM:	SIM/UIM 1.8V/3V auto detection
Power source ：	7.5V-26V（standard DC12V/1.5A），built-in power instant overvoltage protection

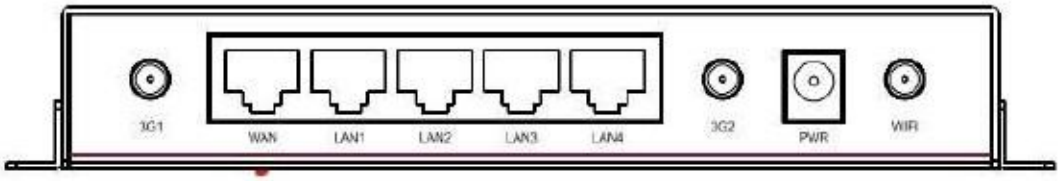
Reset:

H50 interface

Front:



Back:



Power supply

Standard supply: DC 12V/1.5A

Appearance

Dimension: 150×102×25.5mm

Weight: 530g

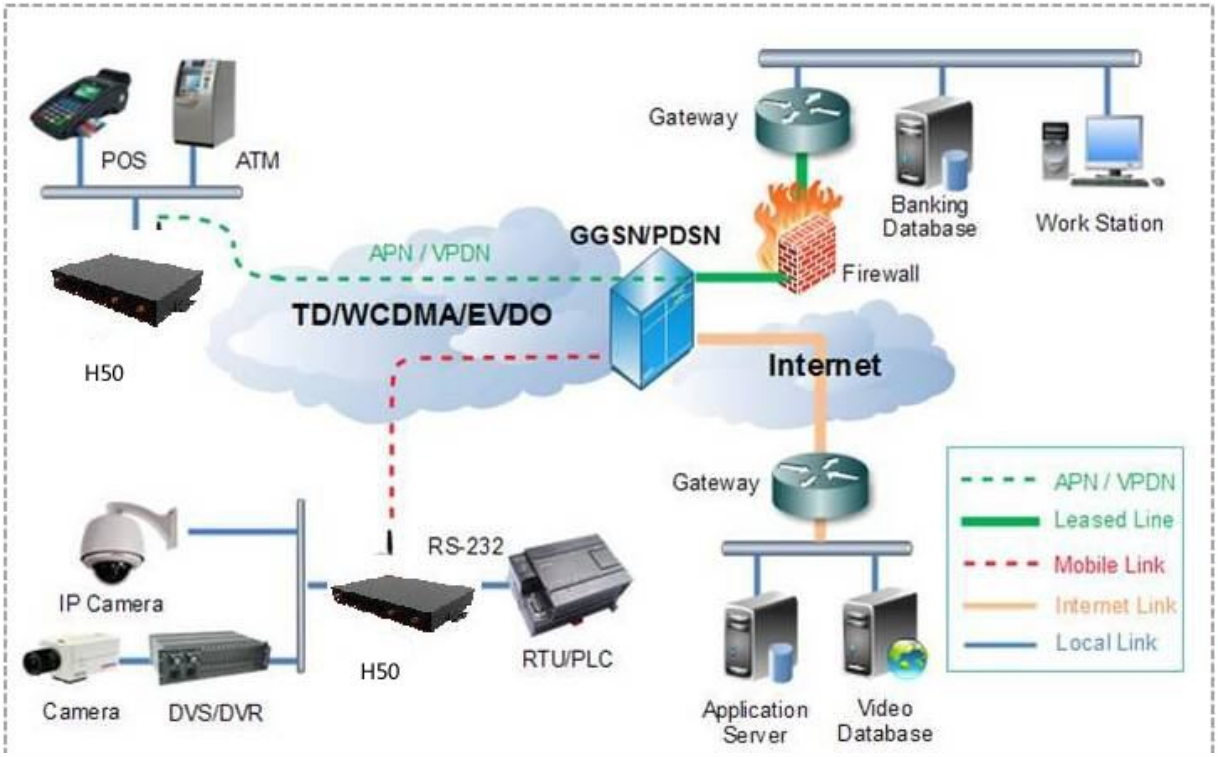
Others

Working temp: -30~+75℃

Storage temp: -40~+85℃

Relative humidity: < 95% no condensing

H50	Standard 3G	4G	Single mode	Dual mode+dual SIM	GPS
WAN	●	●	●	●	●
LAN1-4	●	●	●	●	●
802.11n 1T1R Wifi	○	●	○	●	○
HSDPA	○	-	○	○	○
HSPA	●	-	●	●	●
HSPA+	○	-	○	○	○
EV-DO	○	-	○	○	○
TD-Scdma		-		○	○
FDD-LTE	-	●		○	○
TDD-LTE	-	○	-	●	○
GPS	○	○	○		●
RS232	●	●	●	- ●	●
RS485	○	○	○	●	
Single Card	●	●		-	○
Double Card	○	○	●	●	○
model:	H50-Wa2T	H50-FA2T	H50-Wa2T-D	H50-FT4T-GW	H50-Wa2T-G


POS
ATM
H50
APN / VPDN
GGSN/PDSN
TD/WCDMA/EVDO
Gateway
Banking Database
Work Station
Firewall
Internet
Gateway
IP Camera
RS-232
H50
RTU/PLC
Camera
DVS/DVR
Application Server
Video Database
APN / VPDN
Leased Line
Mobile Link
Internet Link
Local Link

HOMTECS