General features

Dual-Band UMTS/HSPA+

Quad-Band GSM/GPRS/EDGE

Router Board PCBA WE-826

Signal strength and Status indicators (LED)

Control via AT commands and GUI Interface

SIM card (1.8V/3.0V interface)

SMA External antenna connecter

Industrial grade components

Automatic connection, Keep alive, Watchdog

Transparent (TCP/UDP)

WIFI SSID broadcast, Wireless 2.4GHz 300Mbps

Wireless encryption: WPA, WPA2, WPA-PSK, WPA2-PSK

Wireless MAC address filtering : support whitelist

VLAN settings, Transmit power setting

WDS function, Number of wireless clients limit, QoS:WMM

Kick out weak signal device, disable weak signal device access

System Management, WEB management

System log, Restore factory settings

Backup configuration, Import configuration

Software upgrades

GPS build-in

Data logger (Optional)

Supply voltage measure, log and alarm (Optional)

Temperature checking (Optional)

Approval certificate: EMI Standard/CE and RoSH

RF Specifications

Dual - Band UMTS/HSPA+ 800(850)/2100MHz

Quad - Band GSM/GPRS/EDGE 850/900/1800/1900MHz

GPRS multi slot class 12

EDGE multi slot class 12

WCDMA 3GPP release 5

Output power

UMTS 850/2100 : 0.25W

GSM 850/GSM900 : 2W

DCS 1800/PCS1900 : 1W

Specifications for GPS

A- GPS : MS- Based, MS- Assisted

Stand- alone GPS/QUALCOMM XTRA GPS mode

GLONASS

Ethernet

4 Ethernet Ports 10/100Mbit/s Base-TX

1 WAN Port (RJ45) Full Duplex

1 USB Port (AIRCARD Support)

Communication Interface

RS-232, RS485 Selectable

RS-232 Serial interface (RJ45)

Baud rate: 1200-115200bps

Parity bits: 8N1, 8O1, 8E1

Specifications for Data transfer

HSPA+: Max.14.4Mbps(DL), Max.5.76Mbps(UL)

WCDMA: Max.384Kbps(DL), Max.384Kbps(UL)

EDGE: Max.236.8Kbps(DL), Max.118Kbps(UL)

GPRS: Max.85.6Kbps(DL), Max.42.8Kbps(UL)

CSD: GSM data rate 14.4Kbps

WCDMA data rate 57.6Kbps

WCDMA 64Kbps CSD for Video call

Other features

Data/SMS/MMS/Voice and Fax

UDP,TCP/IP/FTP/FTPS/HTTP/HTTPS

SMTP/SNMPv3/PPP/POP3/DNS/FOTA/e Call

Power Supply

DC 10-30V 1A/AC 110-240V

Environmental

Operating temperature - 25C°to+70C°

Storage temperature - 40C°to+85C°

Operating relative humidity 5 to 95% RH

Dimensions 55 W x D 100 x H 130 mm.

Mounting

DIN rail mounting

TECHNICAL SPECIFICATIONS

Networks	3G/GPRS/EDGE	3G (850/900/1900/2100MHz) or GPRS/EDGE (900/1800MHz) class 10
	Authentication Protocol	CHAP/PAP/MS-CHAP/MS-CHAPV2/etc.
	APN Support	Access Point Name supported
Platform	CPU	MT7620A
	FLASH	16 Mbytes
	SDRAM	128 Mbytes
	Operating System	Embedded Linux System
External Memory	Interface	MICRO SD
SIM	Interface	Voltages Supported: 1.8V / 3.0V
Antenna	Interface	SMA female connector, Impedance 50 Ohm
LAN Interface	Auto-Adaption	10/100Mbit/s Ethernet auto-adaptive, MDI/MDI-X auto crossover
	Isolation Protection	1.5KV network isolation transformer protection
	Electrostatic Discharge	8KV Air,4KV Contect
RS232/RS485	Data Rate	1,200bit/s~115,200bit/s
	Communication Parameters	Parity: None, Even, Odd, Space, Mark; Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2
	Protection	15KV ESD Protection
Online	Configuration	Serial, Telnet and Web configuration
	Upgrade	Remote upgrade and web upgrade, utilizing redundant backup mechanism for trouble-free upgrades
	Protection	15KV ESD Protection
Network Functions	Routing	Static routing
	Multi-Protocol Support	UDP,TCP/IP,FTP/FTPS/HTTP/HTTPS SMTP/SNMPv3/PPP/POP3/DNS/FOTA/e Call
	Connection Supervision	Utilizing connection supervision mechanism, ensuring the device is always on-line
	NAT and PAT Port Mapping	Network Address Translation (NAT) and Port Address Translation (PAT), Denying illegitimate host access
	MAC Address Bundling	Allowing extranet user to access specific intranet port
	DDNS	Supports Dynamic DNS (Domain Name System)
Network Security	VPN (optional)	Supports standard IPSec (both support main mode and aggressive mode) Supports PPTP/L2TP/GRE/SSL VPN
	Firewall Strategy	State Packet Inspection(SPI), filtering multicast, filtering PING packet, preventing DoS attack, setting different firewall strategies,Port forwarding Filter,Access Control
Indicators	LED Status Indicators	LED Indicators for Signal strength LED Status Indicators for Power, Status, Network,WAN port, LAN Ports
Button Reset	Resetting	Factory Default / Reboot
Power Supply	Power Input	10 – 30 Vdc, polarity dependent, reverse polarity protection over-current protection, removable industrial terminal block
	Power Consumption	250mA @ 12V(max)
	Burst/Surge Protection	4KV/2KV
Environment	Temperature	Operating Temperature: -25 to +70°C Storage: -40 to +85°C
	Humidity	5% - 95%, non-condensing
	Protection Level	IP30
Safety Certification	Electric Strength	DC500V imposed on communication lines to ground and on power lines to ground, resistance >500MQ

Approvals

IEC61000-4-2 (Electrostatic Discharge) Level 3

IEC61000-4-3 (RF Electromagnetic Field Immunity) Level 3

IEC61000-4-4 (Electric Fast Transient/Burst) Level 4

IEC61000-4-5 (Surge) Level 3

IEC61000-4-6 (RF conducted interference) Level 3

IEC61000-4-8 (Power frequency Magnetic) Level 3

IEC 61000-4-12 (Damped oscillation Immunity) Level 3