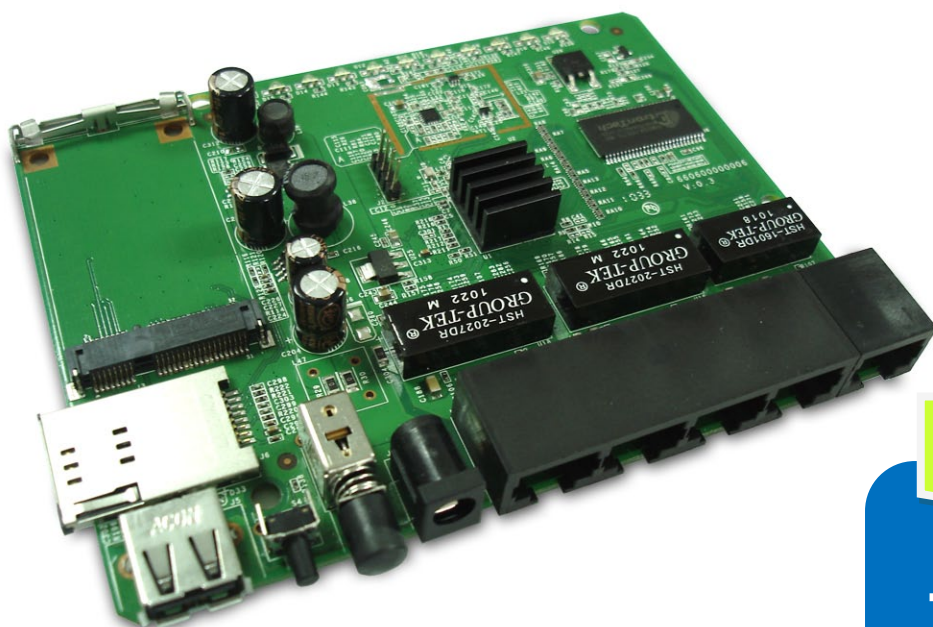


Manna10

Ralink RT3050 based 3G Wireless Broadband Compact Router



Product

Highlight

- Powered with Ralink RT3050 SoC
- Support 802.11n compliant 1T1R MAC/BBP/RF
- 5-port integrated 10/100 Ethernet Switch
- Support: WEP/TKIP/AES/WPS/WPA/WPA2
- 1 x USB2.0 OTG
- 1 x Mini PCI-E connector for 3G
- 1 x SIM card slot

Product

Overview

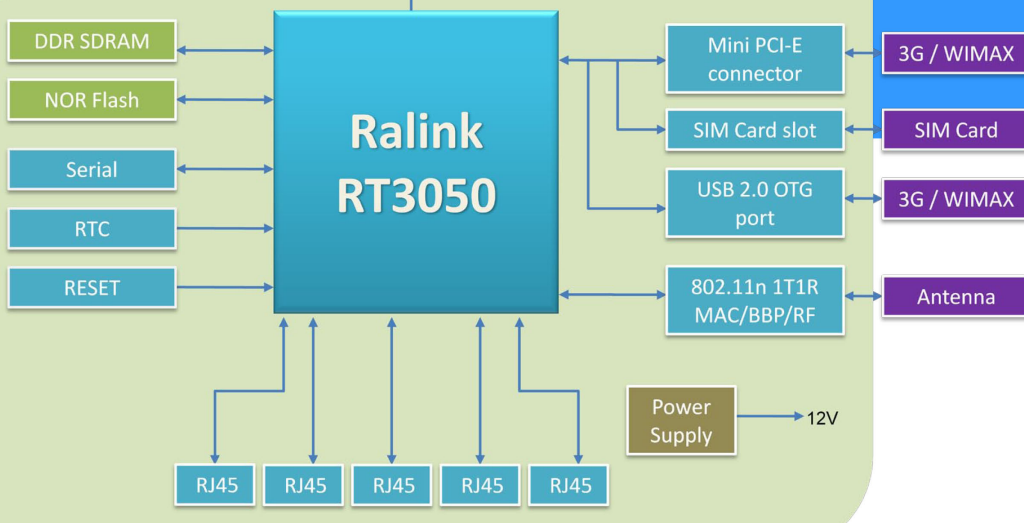
The Manna10 3G wireless broadband compact router is a versatile yet compact router platform to response to fast growing mobile users' need for setting up a wireless network on-the-go to share an Internet connection. It is powered with Ralink RT3050 SoC which employs next generation 11n technology for longer range and better throughput. It enables users to quickly create a secure wireless 802.11n network and provide access to the Internet using a cellular signal. It includes all - five Fast Ethernet ports, a USB 2.0 OTG port, and a mini PCI-E slot for connecting a 3G card. A SIM card slot for 3G is also present on this platform.

This router uses two connection models for 3G broadband – mini PCI-E module and USB modem. It can be customized to get compatible with one or more 3G / WiMax / HSPA PCI mini express cards. The USB port is set to attach a USB 3G modem (selected models).

In addition to the Manna10 3G wireless broadband router, the WAN port can be used to connect to ADSL modem or WAN network which provides wired broadband connection when absent of 3G network. It is designed to meet general needs for SOHO / SME users.

This is a mass production ready product and customers can adopt it directly as an end product. A further customization service is available to help customers to keep low in R&D cost and fast time to market in a competitive global market.

LED Indicators



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Hardware

Features

Feature	Description
Network Processor	Ralink RT3050 SoC, 320MHz
Memory	16MB / 32MB DDR SDRAM
Flash	4MB / 8MB NOR Flash
WAN	1 x 10/100Mbps FE RJ-45 port (Auto MDI / MDIX)
LAN	4 x 10/100Mbps FE RJ-45 port (Auto MDI / MDIX)
3G	Support WCDMA / CDMA2000 or other 3G module through mini PCI-E or USB port
Wireless	On board IEEE 802.11n (Backward compatible IEEE 802.11 b/g), 1T1R
Antenna	1 x IPEX connector for antenna
USB	1 x USB 2.0 OTG port, 3G USB dongle supported
MiniPCI	1 x mini PCI express slot
LED Indicators	Power / WLAN / LAN / WAN (per device) Link / Activity (per port)
HW Reset	1 x Hardware Reset
Power	DC +12V@1A, External Power Adapter
Console	1 x RS232 Pin Header (Optional)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 70°C
Operating Humidity	10% ~ 90% RH non-condensing
Storage Humidity	5% ~ 90% RH non-condensing
Dimension	171mm x 120mm x 27mm

Software

Features

Feature	Description
WAN Connection	Static IP, Dynamic IP, PPPoE, 3G
3G	WCDMA, CDMA2000
Ethernet Features	IEEE 802.3, IEEE 802.3u, IEEE 802.3x Auto MDI / MDIX, CSMA/CD
Routing Features	Static Routing NAT, DNS, DDNS, DHCP Server / Client Virtual Server, DMZ host
Wireless Features	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, CSMA/CA WEP, WPA/WPA2, WPA-PSK, WPA2-PSK encryption
Firewall	IP / MAC / Port / URL Filter Web-based GUI
Management	System Log Log host NTP



Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

