



Indoor Equipment

## Feature

- 802.11n WiFi compliant
- IEEE 802.11 b/g/n
- 2.4Ghz
- 20/40Mhz Channel bandwidth
- Bridge/Gateway/Client
- Multi-BSSID
- BPSK, QPSK, CCK, OFDM
- QoS (WMM)
- WEP, WPA, WPA2, RADIUS, WPS
- 802.1x Encryption mode for wireless networks.
- Web Firmware upgrade
- PPPoE Client
- Samba support
- Bit torrent support
- Power Consumption 14W max
- Passive PoE
- RoHS compliance

## 802.11b/g/n 2T2R AP/Router

Up to Wireless 300Mbps Access Point

The MakSat Neptune 3G mini is dedicated to Small Office/Home Office (SOHO) Wireless network solution. It support smart Bit Torrent download and SAMBA storage file in office local area network and easy create DHC (Digital Home Center).

Neptune 3G mini integrates the function of wireless Access Point, Five Switch Ethernet port and one USB 2.0 port. It helps you set up a wired or wireless net share a high-speed DSL or cable Internet connection, data file and other resources.

### Features

- IEEE 802.11n compliant
- Support WDS(Bridge/ Repeater/ Lazy mode)
- Support Bridge, Gateway, Client, AP + Client operation mode.
- Support WEP, WPA, WPA2, RADIUS, WPS and 802.1x encryption mode for wireless networks.
- Support IP tables firewall, MAC/IP/Port filter
- Hardware WPS button
- Web Firmware upgrade



## 3G Port

It has a USB port to connect the modem (3G, EVDO) for the 3G services, provided by the telephone operators in the area. 3G modem provides the high speed Internet connectivity to the equipment and this bandwidth can be distributed by the same equipment.

In other word's, it takes Internet bandwidth (high speed, 2-3Mbps or more) from 3G service provider with the help of USB modem and distribute to the others (laptop, computers or another equipment).

- FTP support
- DDNS support

### 3G / Bit Torrent

- Built in USB 2.0 connect to 3G or storage device
- Bit Torrent download support (either 3G or Bit torrent)
- SAMBA support



## Radio Technical Specifications

System Information			
<b>Processor</b>	Ralink RT3052 Networking Processor		
<b>Memory</b>	32MB		
<b>Flash</b>	8M		
<b>Interface</b>	Wireless: 802.11b/g/n WAN: One 10/100 Base Ethernet Port (with Auto MDI/ MDIX) LAN: Four 10/100 Base Ethernet Port (with Auto MDI/ MDIX) USB: One USB 2.0 Port Button: One WPS button and One load default reset button		
Radio Information			
<b>Antenna</b>	Two 5dBi OMNI high gain antenna		
<b>Data Rate</b>	802.11n: Up to 300Mbps		
<b>Modulation</b>	BPSK, QPSK, CCK, OFDM		
<b>Channel Bandwidth</b>	20MHz/ 40MHz		
<b>Frequency Range</b>	2412 ~ 2462MHz (North America) 2412 ~ 2472MHz (Japan) 2412 ~ 2472MHz (Hong Kong) 2412 ~ 2472MHz (France) 2412 ~ 2472MHz (Taiwan) 2412 ~ 2472MHz (Ireland)		
<b>Output Power</b>	24±1.5dBm @ 6Mbps 24±1.5dBm @ 12Mbps 23±1.5dBm @ 18Mbps 23±1.5dBm @ 24Mbps 22±1.5dBm @ 36Mbps 20±1.5dBm @ 48Mbps 19±1.5dBm @ 54Mbps	23±1.5dBm @ MCS0 23±1.5dBm @ MCS1 21±1.5dBm @ MCS2 21±1.5dBm @ MCS3 19±1.5dBm @ MCS4 18±1.5dBm @ MCS5 17±1.5dBm @ MCS6 16±1.5dBm @ MCS7	23±1.5dBm @ MCS8 23±1.5dBm @ MCS9 21±1.5dBm @ MCS10 21±1.5dBm @ MCS11 19±1.5dBm @ MCS12 18±1.5dBm @ MCS13 17±1.5dBm @ MCS14 16±1.5dBm @ MCS15
<b>Receiver Sensitivity</b>	-96±1.5dBm @ 6Mbps -96±1.5dBm @ 12Mbps -96±1.5dBm @ 18Mbps -96±1.5dBm @ 24Mbps -87±1.5dBm @ 36Mbps -83±1.5dBm @ 48Mbps -81±1.5dBm @ 54Mbps	-96±1.5dBm @ MCS0 -96±1.5dBm @ MCS1 -93±1.5dBm @ MCS2 -91±1.5dBm @ MCS3 -87±1.5dBm @ MCS4 -84±1.5dBm @ MCS5 -80±1.5dBm @ MCS6 -77±1.5dBm @ MCS7	-95±1.5dBm @ MCS8 -95±1.5dBm @ MCS9 -92±1.5dBm @ MCS10 -90±1.5dBm @ MCS11 -86±1.5dBm @ MCS12 -83±1.5dBm @ MCS13 -79±1.5dBm @ MCS14 -76±1.5dBm @ MCS15

\* 3G compatibility subject to Country/state specific

Note: 3G Modem will be provided by customer



## Radio Technical Specifications

Software Information	
<b>Wireless Feature</b>	<ul style="list-style-type: none"> <li>● Support WDS.</li> <li>● Support Bridge, Gateway, Client and AP+ Client mode.</li> <li>● Support Multiple SSID</li> <li>● Support MBSSID AP Isolation</li> <li>● Support AP Isolation</li> <li>● Support Auto block ACK</li> </ul>
<b>Network Feature</b>	<ul style="list-style-type: none"> <li>● Support DHCP Server</li> <li>● Support DHCP Client</li> <li>● Support PPPoE</li> <li>● Support L2TP</li> <li>● Support PPTP</li> <li>● Support 3G modem (NUMU-Q101/ HUAWEIE169/ BAND LUXE C270/ OPTIO TCON225)</li> <li>● Support 802.11e QoS - WMM</li> <li>● Support USB file share</li> <li>● Support STP (Spanning Tree Protocol)</li> <li>● Support NTP</li> <li>● Support UPNP</li> <li>● Support Bit Torrent</li> </ul>
<b>Security Feature</b>	<ul style="list-style-type: none"> <li>● Support WEP 64/128, WPA-PSK, WPA2-PSK, WPA-RADIUS, WPA2-RADIUS, WPS and 802.1x encryption mode for wireless.</li> <li>● Support IP table firewall, MAC/ IP/ Port filter.</li> </ul>
<b>Management Feature</b>	<ul style="list-style-type: none"> <li>● Factory load default</li> <li>● SAMBA Server</li> <li>● FTP Server</li> <li>● DDNS</li> <li>● MAC Access Control</li> <li>● Firmware Upgrade</li> </ul>

Power & Environmental Information	
<b>DC Jack Input</b>	Range 12V ~ 18V @2A (DC Voltage)
<b>PoE</b>	WAN Port Passive PoE (12V ~ 18VDC) input
<b>Power Consumption</b>	14W Max
<b>Operation Temperature</b>	-20°C to +65°C
<b>Storage Temperature</b>	-60°C to +150°C
<b>Humidity</b>	5% ~ 98% non-condensing
<b>Dimension</b>	152mm x 23mm x 102mm
<b>Weight</b>	200g

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