



RouterBOARD  
**433 / 433AH**

product overview

August, 2008

## application examples

Both RouterBOARD 433 and 433AH are one of the best equipped RouterBOARD models. Thanks to the fast CPU and number of interfaces they can be used in countless types of both wireless and wired network setups.

The most popular applications these models are used for are:

- Wireless Access Point / Repeater
- HotSpot Gateway / User Manager
- Firewall
- Bandwidth Shaper
- VPN Server, etc.

# key features

## RouterBOARD 433

RB/433 is a high speed AP/router.

Much faster than it's predecessors the RB/433 is replacing not only the low priced RB/133, but also the powerful RB/333.

The heart of this device is the new Atheros CPU which makes this tiny device a quick one. Tests show that this device is faster than any other low cost product by mikrotik, making the RB/400 series fit right behind RB/600 and RB/1000.

RB/433 includes RouterOS - the operating system, which will turn this powerful system into a highly sophisticated router/firewall or bandwidth manager. One small device - with all the power of RouterOS.

At a very special price.



# key features

## RouterBOARD 433AH

RB/433AH is a more powerful version of the standard RB/433. 128MB DDR will be capable of supporting new RouterOS features coming. MicroSD slot supports an additional memory card that can be used for a Dude database and other features to be announced in future.

680MHz Atheros MIPS 24K CPU, which can be overclocked to 800MHz, with a 64KB/32KB instruction/data cache is probably the fastest CPU used in low cost wireless access points.

Three Ethernet ports and MiniPCI slots give you ample data interfaces to put the big CPU power to work.

The RB/433 and RB/433AH replace RB/133 and RB/333 positions of our product line.



# specification

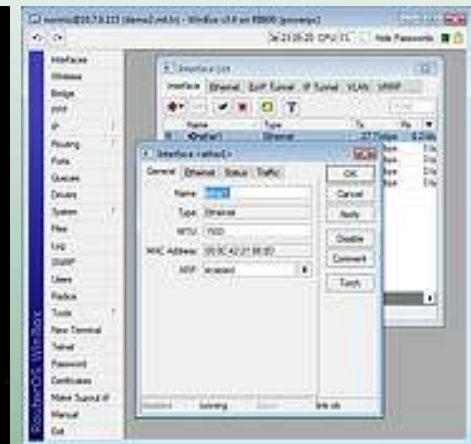
	<b>RouterBOARD 433</b>	<b>RouterBOARD 433AH</b>
<b>CPU</b>	Atheros AR7130 300MHz network processor	Atheros AR7161 680MHz network processor (Tested at 800MHz)
<b>Memory</b>	64MB DDR SDRAM onboard memory	128MB DDR SDRAM onboard memory
<b>Boot loader</b>	RouterBOOT	RouterBOOT
<b>Data storage</b>	64MB onboard NAND memory chip	64MB onboard NAND memory chip and microSD
<b>Ethernet</b>	Three 10/100 Mbit/s Fast Ethernet ports with Auto-MDI/X	Three 10/100 Mbit/s Ethernet ports with Auto-MDI/X
<b>miniPCI</b>	Three MiniPCI Type IIIA/IIIB slots	Three MiniPCI Type IIIA/IIIB slots
<b>Extras</b>	Reset switch, Beeper	Reset switch, Beeper
<b>Serial port</b>	One DB9 RS232C asynchronous serial port	One DB9 RS232C asynchronous serial port
<b>LEDs</b>	Power, NAND activity, 5 user LEDs	Power, NAND activity, 5 user LEDs
<b>Power options</b>	Power over Ethernet: 10..28V DC (except power over datalines). Power jack: 10..28V DC	Power over Ethernet: 10..28V DC (except power over datalines). Power jack: 10..28V DC. Voltage monitor.
<b>Dimensions</b>	10.5 cm x 15 cm, 137 grams	10.5 cm x 15 cm, 137 grams
<b>Power consumption</b>	~3W without extension cards, maximum – 25 W	~3W without extension cards, maximum – 25 W, 16W output to cards
<b>Operating System</b>	MikroTik RouterOS v3, Level4 license	MikroTik RouterOS v3, Level5 license

# powered by Router OS

## Main Features

- \* best wireless performance
- \* powerful QoS control
- \* P2P traffic filtering
- \* high availability with VRRP
- \* bonding of Interfaces
- \* advanced Quality of Service
- \* firewall, tunnels
- \* high speed 802.11a/b/g wireless with WEP/WPA
- \* WDS and Virtual AP
- \* HotSpot and User Manager
- \* RIP, OSPF, BGP routing
- \* remote WinBox GUI and Web admin
- \* telnet/mac-telnet/ssh/console admin
- \* real-time configuration and monitoring
- \* plenty of other important features

```
RouterOS [admin@router] > /
/backup -- To basic setup of system
/certificates -- Certificate management
/clock -- Change password
/cluster -- Cluster management
/dfs -- Local router file storage.
/export -- Export configuration
/interface -- Interface configuration
/ip -- IP
/ips -- System logs
/load -- Load configuration
/load-policy -- Change password
/load-policy -- Send ICMP Echo packets
/load-policy -- Serial ports
/load-policy -- Point to Point Protocol
/load-policy -- Bandwidth management
/load-policy -- Quit console
/load-policy -- Radius client settings
/load-policy -- Redo previously undone action
/load-policy --
/load-policy -- To basic setup of system
/load-policy -- SNMP settings
/load-policy -- Special login users
/load-policy --
/load-policy -- Diagnostics tools
/load-policy -- Undo previous action
/load-policy --
/load-policy -- Print or save an export script that
/load-policy --
RouterOS [admin@router] > /interface print
```



The following script should be created when you wish to run once in a while. The global variables should be edited to match your environment.  
The script below is RouterOS 3.0 Compatible!  
An updated script here (01/20/08) should allow auto-detecting more than 1 WAN connection, but only 1 is active at a time.

```
-----
# Define User Variables
:global ddnsuser "CHANGEIPUSERID"
:global ddnsip "CHANGEIPADDRESS"
:global ddnsport "CHANGEIPPORT"
:global ddnsinterface "CHANGEIPINTERFACE"

# Define Global Variables
:global ddnsip
# *** edited to give $ddnsip has a default value
:global ddnsinterface
:if ( [ :typeof $ddnsinterface ] = nil ) do {
# ***
:global ddnsinterface
```

# accessories

**18POW**  
24V Power Supply



**RB/P54**  
Passive POE Base Unit



**CA/333**  
Indoor case



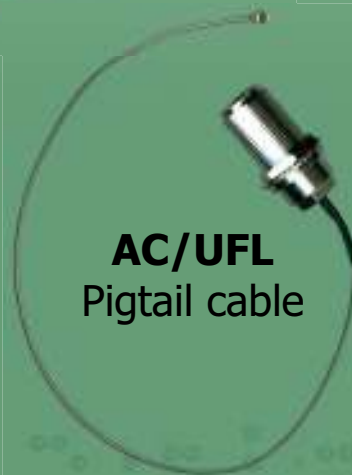
**AC/SWI**  
Swivel antenna



**R52, R52H**  
MiniPCI cards



**AC/UFL**  
Pigtail cable



**CA/OTU**  
Outdoor case



# throughput comparisson

