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## Hardware Specifications

- FCC ID: MSQ-RTGW00
- Industry Canada ID: 3568A-RTGW00
- CPU: Broadcom BCM4709C0 (1.4 GHz, 2 cores)
- Flash / RAM: 128 / 512 MiB
- Expansion IFs: 1\* USB 3.0, 1\* USB 2.0
- JTAG: yes, 5-pin header, unpopulated
- Serial: yes, 4-pin header, unpopulated, internal, 3.3V TTL
- Wireless chip: Broadcom BCM4366
- Antenna MIMO config: 4x4:4
- WI1 protocols: a/n/ac
- WI2 protocols: b/g/n
- ETH chip1: Broadcom BCM4709C0
- Switch: Realtek RTL8365MB
- LAN / WAN ports: 8 / 1 (up to 1 Gb/s)

## Installation

- Initial Flash: It is recommended to install the .trx build file with the ASUS Firmware Restoration Tool.
- Upgrade: Flash from GUI, but research builds first, and see [here](#) for more info.

Also refer to the *Asus guides* Category at the bottom.

## Build Size Limit

The *linux* mtd partition is 62.0 MB, however, the CFE limits flash size to ~27 MB.

- Reference: [smitna reported that build 35531 worked, but 35667 did not.](#)

35531: 28241920 (26.9336 MB)  
35667: 28393472 (27.0781 MB)

## MTD Boot Partitions

From dmesg output:

```
nflash: squash filesystem with lzma found at block 29
Creating 4 MTD partitions on "nflash":
0x0000000000000-0x0000000080000 : "boot"
0x0000000080000-0x0000000200000 : "nvram"
0x0000000200000-0x0000004000000 : "linux"
0x00000003b3e80-0x0000004000000 : "rootfs"
[...]
Northstar brcmnand NAND Flash Controller driver, Version 0.1 (c) Broadcom Inc. 2012
NAND device: Manufacturer ID: 0xc8, Chip ID: 0xd1 (Unknown NAND 128MiB 3,3V 8-bit)
[...]
Creating 1 MTD partitions on "brcmnand":
0x0000004000000-0x0000008000000 : "brcmnand"
```

## Notes

Router model thread: [Asus RT-AC88U AC3100](#)