

Is it possible to replace the [m25p64](#) flash chip with the [m25p128](#) to double the flash space? [Daemondust](#)
04:53, 23 Apr 2007 (CEST)

Which type of SDRAM

Hi to all. The original SDRAM chip on the Fonera is a **hynix HY57V281620ETP-H** which features: **128 Mbit** organized as **4 banks x 2 Mbit x 16, 133 MHz**. An ideal chip needed for the 32MB upgrade may be the **hynix HY57V561620ETP-H** which is: **256 Mbit** organized as **4 banks x 4 Mbit x 16, 133 MHz**. Unfortunately it is difficult to buy single chips (or small amounts), so we prefer to use PC133 SDRAM modules (like a 512MB PC133 DIMM module - double sided, 8 chips per side - or 256MB PC133 SODIMM module - double sided, 4 chips per side -). The question is that not all chips from these modules are organized as **4 banks x 4 Mbit x 16**. For example, I saw a 512MB PC133 DIMM module with 16 **Micron Technology MT48LC32M8A2BB-75** which is organized as **4 banks x 8 Mbit x 8, 133 MHz**. Is it possible to do a Fonera RAM upgrade with this chip? (in other words: does the different organization of the same memory size make the difference?)

-> *My understanding is that the 4 banks and the x16 is the physical interface to the CPU, so I guess the RAM will need to be of this organization. The "n Mbit" could possibly be increased further, as long as RedBoot is updated to use the additional memory. [Kintel](#) 00:54, 19 February 2008 (CET)*

Piggy packing 32MB

Hi,

I too thought about extending the Fonera's RAM.

However, I would have gone a different route. Since it is quite hard to desolder SMD and you can potentially damage the PCB, I would have tried something like:

- Desoldering or cutting CS# on the original module (in such a way that a wire can still be attached to it)
- Piggy packing the 32MB module on top of it, i.e. solder each pin except CS# to the lower chip.
- pull high the lower chip's CS#
- connect the upper chip's CS# to the PCB

Only thing is I'm not sure that pulling CS# high will actually tri-state the chip's outputs. Maybe you also / instead have to pull CKE low.

just my \$0.02

List of working memory chips

Although I doubt many people have or will complete this modification, I think we should compile a list of working replacements for the original memory chip.

I can hereby confirm that the **Micron MT48LC16M16A2-75 (:D)** works flawlessly.

But, for some reason the modified OpenWRT distribution that the Fonera is shipped with only shows 16 MB. DD-WRT on the other hand shows it all.

Talk:LaFonera_Hardware_32MB_SDRAM_MOD

- Pinkevin

I can confirm **A2V56S40BTP** by PSC is workin. Found on a TwinMOS 128MB stick with 4 chips. If someone need one, I have some spares.PM me in the forum.

- Whitewiz