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Investigate oktagon/oktapussy extendability #2



tehKaiN opened this issue on Sep 3, 2018 · 1 comment

Labels

[enhancement](#)[help wanted](#)[question](#)

tehKaiN commented on Sep 3, 2018

[Member](#)

Perhaps it's possible to leave some space on PCB for mounting programmable logic and/or ROM so that this expansion could work in less hackish way and support booting

tehKaiN added [enhancement](#) [question](#) [help wanted](#) labels on Sep 3, 2018

tehKaiN commented on Dec 5, 2018 • edited

[Member](#)[Author](#)

Oktagon/oktapussy is troublesome 'cuz you need programmable stuff (PLD or ROM/flash) and it makes BOM considerably pricier.

some googling has given me an info that at addr \$DE1000 there's Gayle register, and you read it like:

```
UBYTE ubGayle = 0;
volatile UBYTE *p = (uint16_t*)0xDE1000;
*p = 0xFF; // Write anything
for(UBYTE i = 0; i < 8; ++i) {
    ubGayle = (ubGayle << 1) | (*p >> 7);
}
logWrite("Gayle: %02X\n", ubGayle);
```

and if you expose D0 or D1 value there, you'll trick kickstart into thinking that there's Gayle onboard, and not Gary. It will magically boot IDE for you, probably. KS 37.300+ is needed for that ofc but those should be quite popular nowadays. For purists there's floppy boot option. ;)

This could be done with one address decoder and single 8-bit shift register.

Assignees

No one assigned

Labels

enhancement help wanted question

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

