

# Ethernut 3.0E

## Change Notice

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### Ethernut 3.1D replaces Ethernut 3.0E

#### Changes

1. IC2 DM9000(E) has been replaced by DM9000A with Auto-MDIX support. LAN wakeup is no longer available. Link indicator LED will not lit with 10 Mbit. [Note 2](#)
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3. The 1 A fuse has been replaced by a 0.5 A type.
4. LED resistors has been changed from 180  $\Omega$  to 120  $\Omega$ .

#### Fixes

5. MMC write protect fails to work on Ethernut 3.0. This has been fixed.
6. MMC insert may have caused board reset on Ethernut 3.0. This has been fixed, replacing C5 (470 nF) by a 10 uF tantalum capacitor.

#### New parts

7. An AT45DB321D-SU serial DataFlash has been added. The pin that was formerly used for LAN wakeup is now used as a chip select. [Note 3](#)
8. A common mode choke and C53-C56 had been added to reduce EMI.
9. Pads had been added for a serial EEPROM, which may be used for Ethernet controller boot configuration. Note, that this part will not be mounted by default.

**Note 1** Due to this change, full binary compatibility is no longer provided. Applications written for Ethernut 3.0 must be rebuilt to work on Ethernut 3.1. egnite will publish sample code to guarantee backward compatibility. Binaries built for Ethernut 3.1 will run on Ethernut 3.0 without change.

**Note 2** The DM9000A is register compatible with the DM9000(E). Existing binaries should work without change.

It is our strict policy to maintain full compatibility for all upcoming revisions of Ethernut 3. However, in this case the manufacturer discontinued the RTC after a few years of production and we had no chance. We decided not to switch to an "almost compatible" part from the same manufacturer, but to change the manufacturer.

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