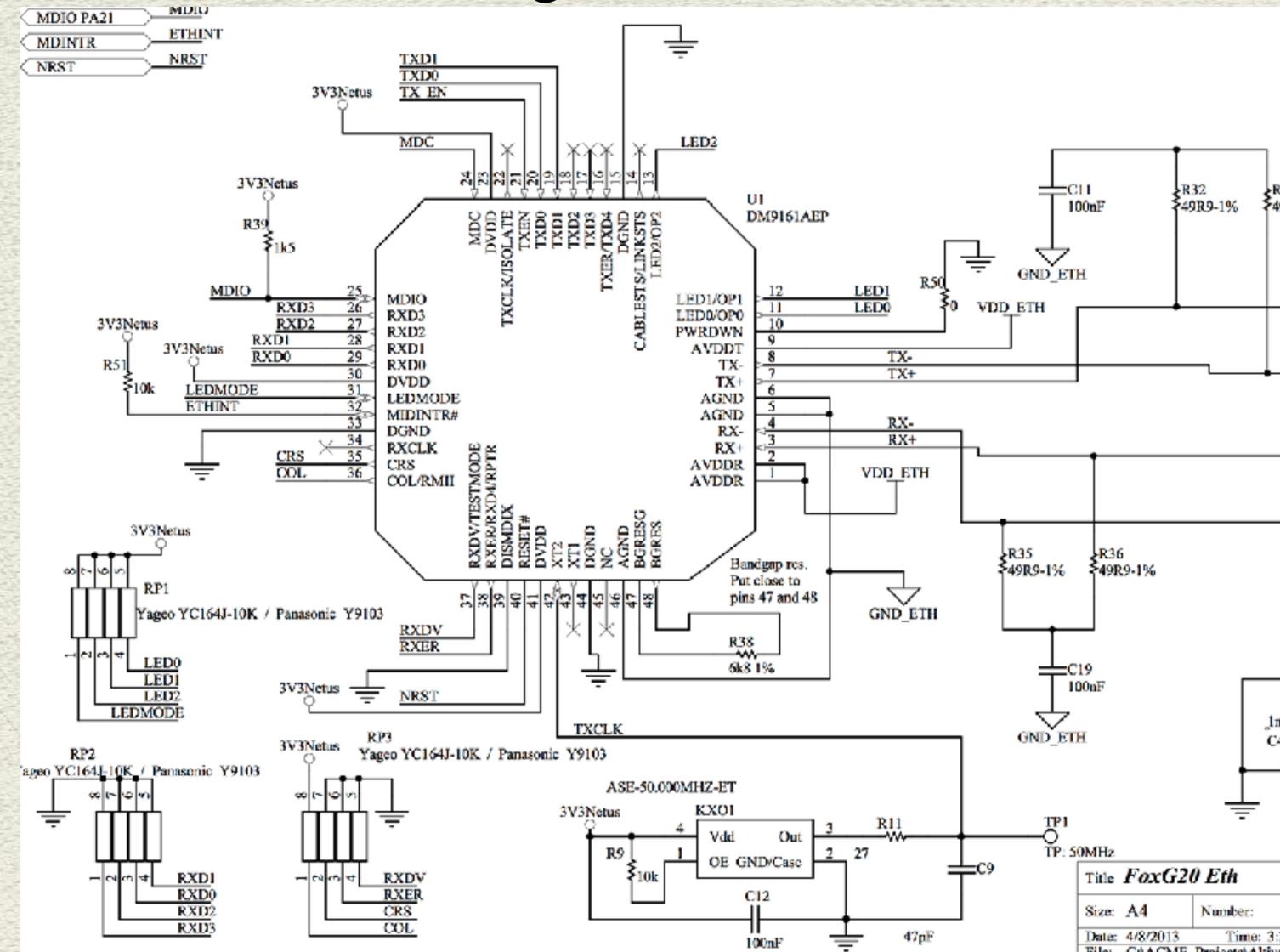
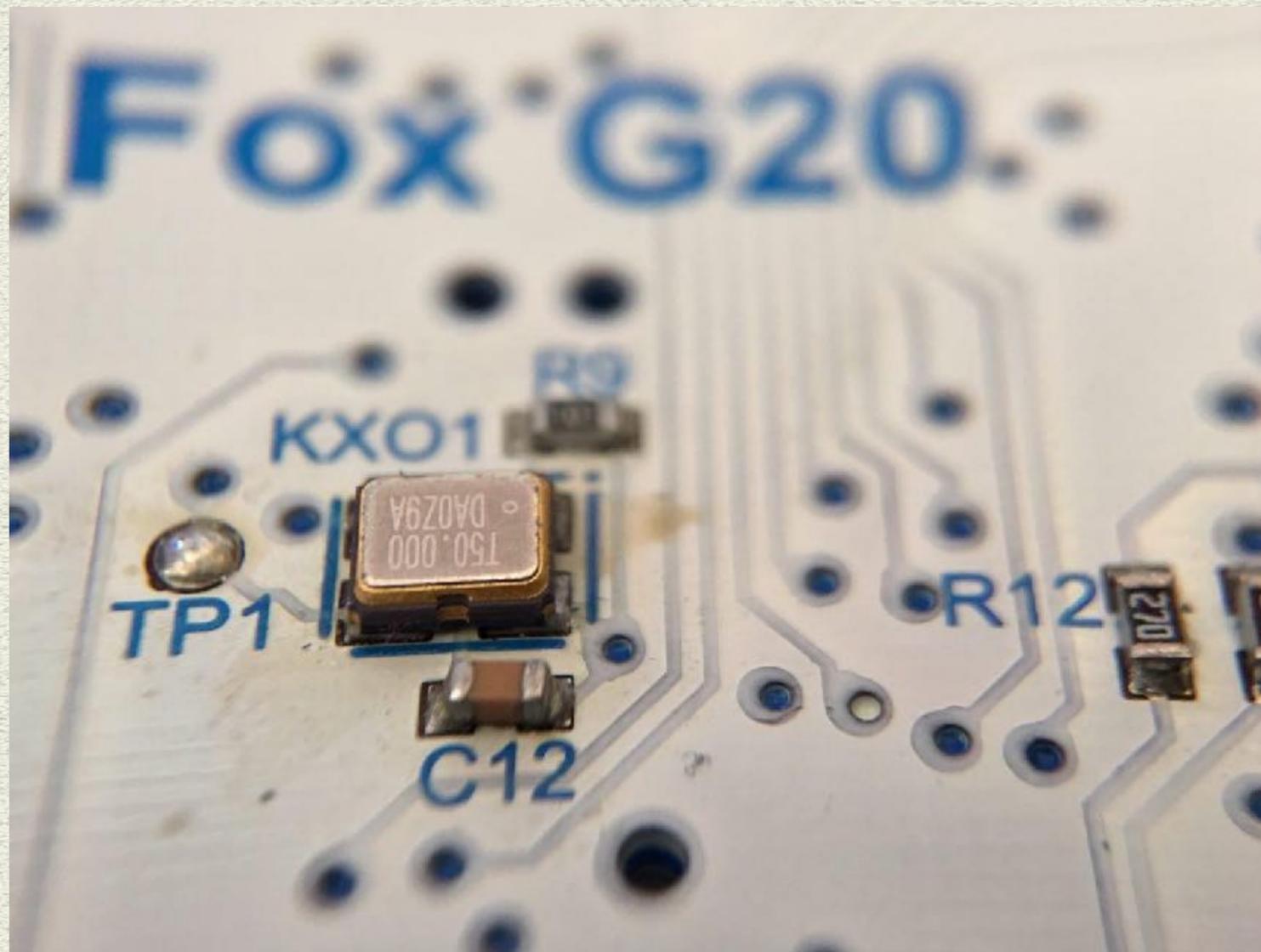


The FOX anatomy



The TanzoLab Project

Sergio Tanzilli - Mercoledì 6 Aprile - Ore 18:30

FOX Board G20



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FOX Board G20 - Linux Embedded SBC

FOX Board G20 is a ready-to-use low cost Linux embedded Single Board Computer designed to reduce the time to market of your Linux embedded applications

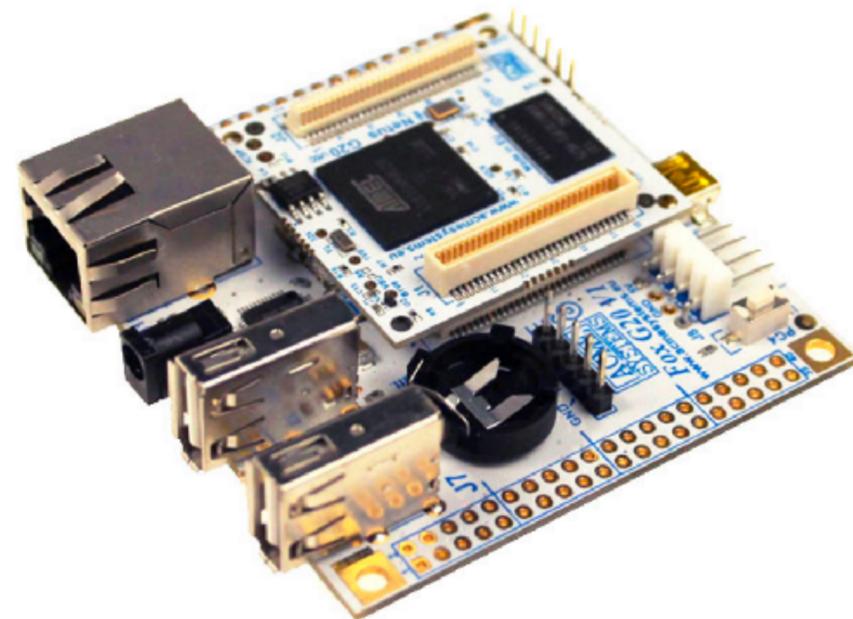
Overview

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Documentation

Pinout

Dev kit



FOX Board G20 is Single Board Computer built around the ARM9@400Mhz Atmel CPU AT91SAM9G20.

The main fields of application are:

- Solid-state web application servers
- Embedded devices enhanced with Internet connectivity and Linux flexibility

Thousands of ready-to-run applications can easily be installed on the FOX Board G20 thanks to the Debian Linux distribution and its huge application repository. Any programming language can be used to develop your own application

FOX Board G20 V2 (mai commercializzata)

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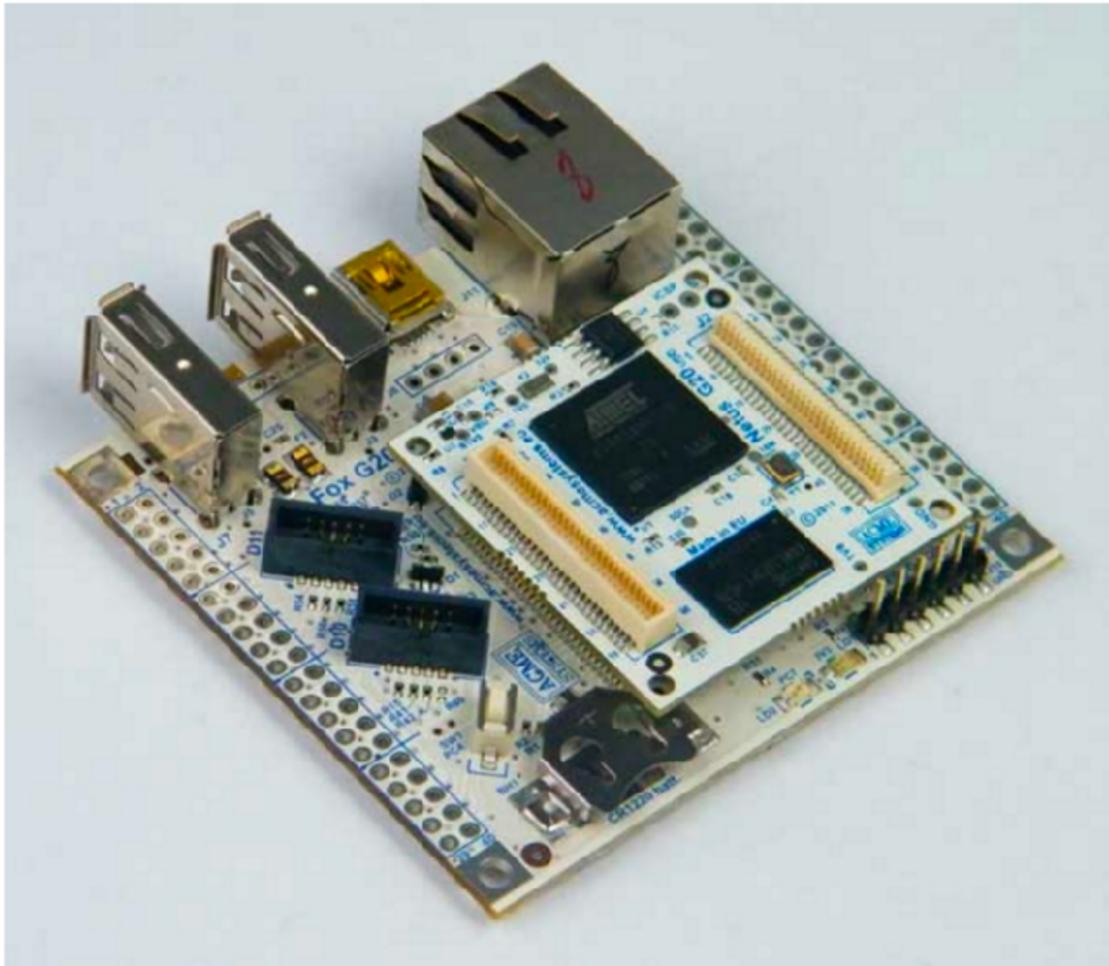
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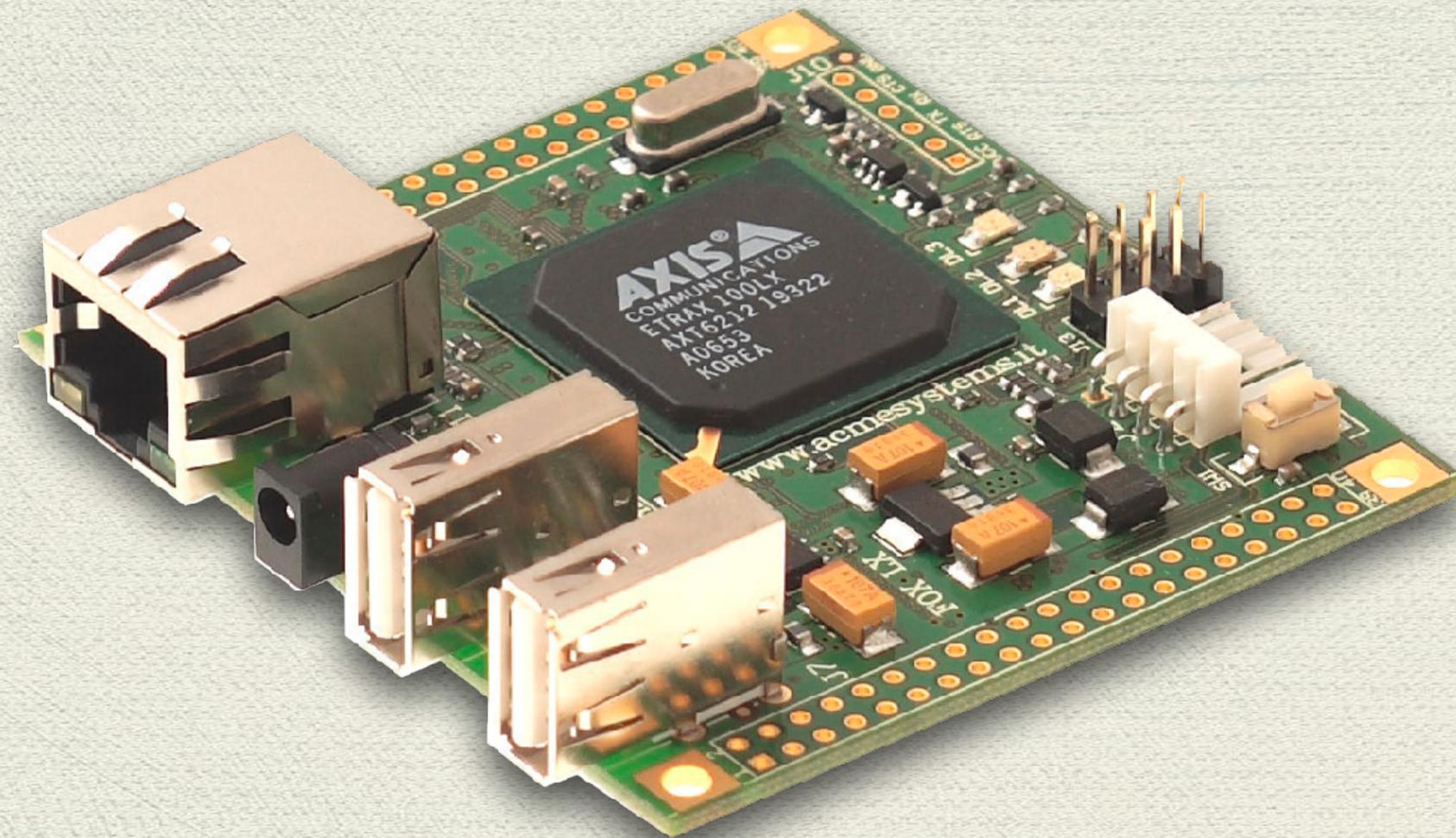
⚠️ PLEASE NOTE: This article is obsolete or related to a discontinued product.

FOX Board G20 V2 - Beta

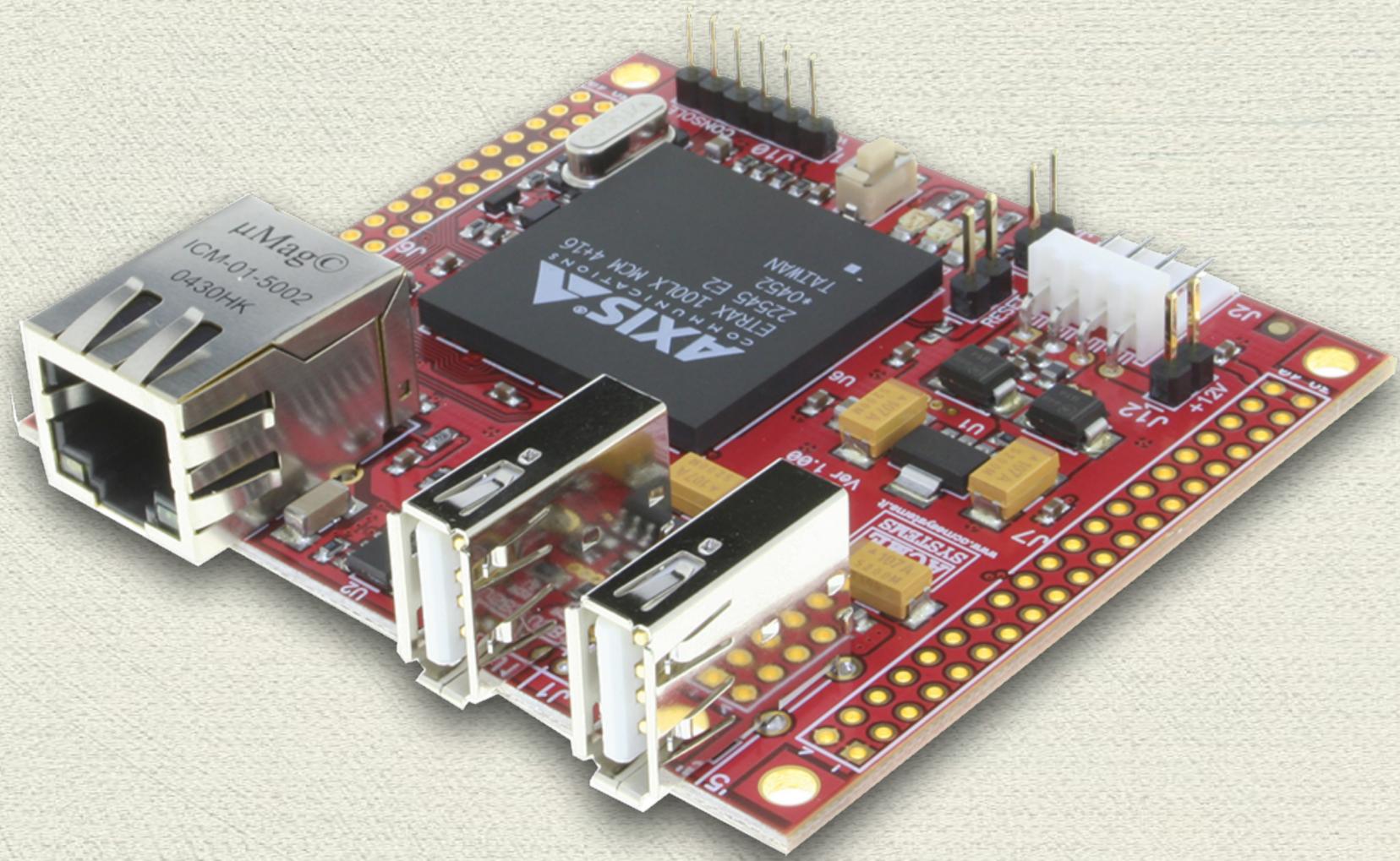
Note: The FOX Board V2 was an experiment and will not be available as standard product.



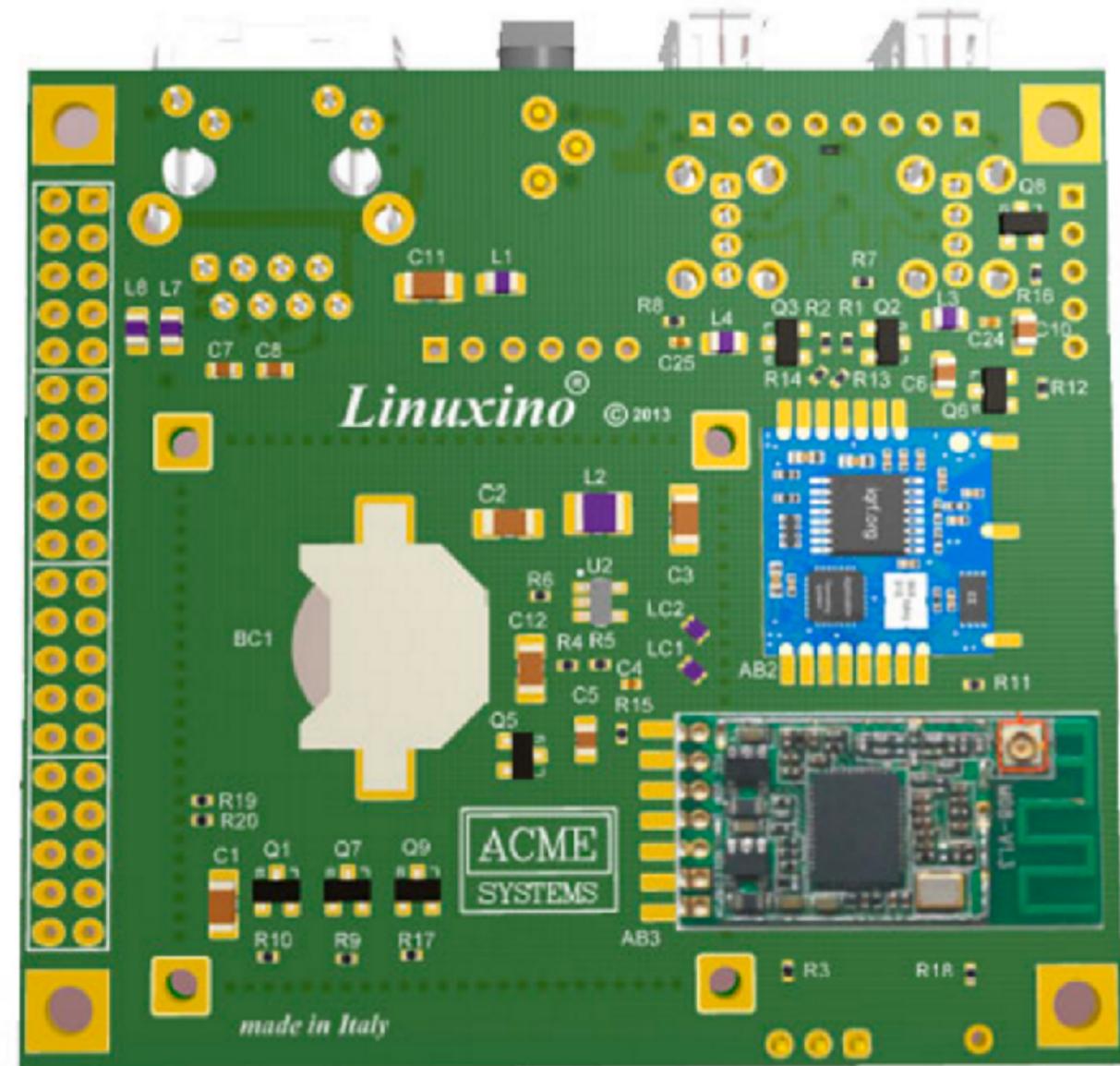
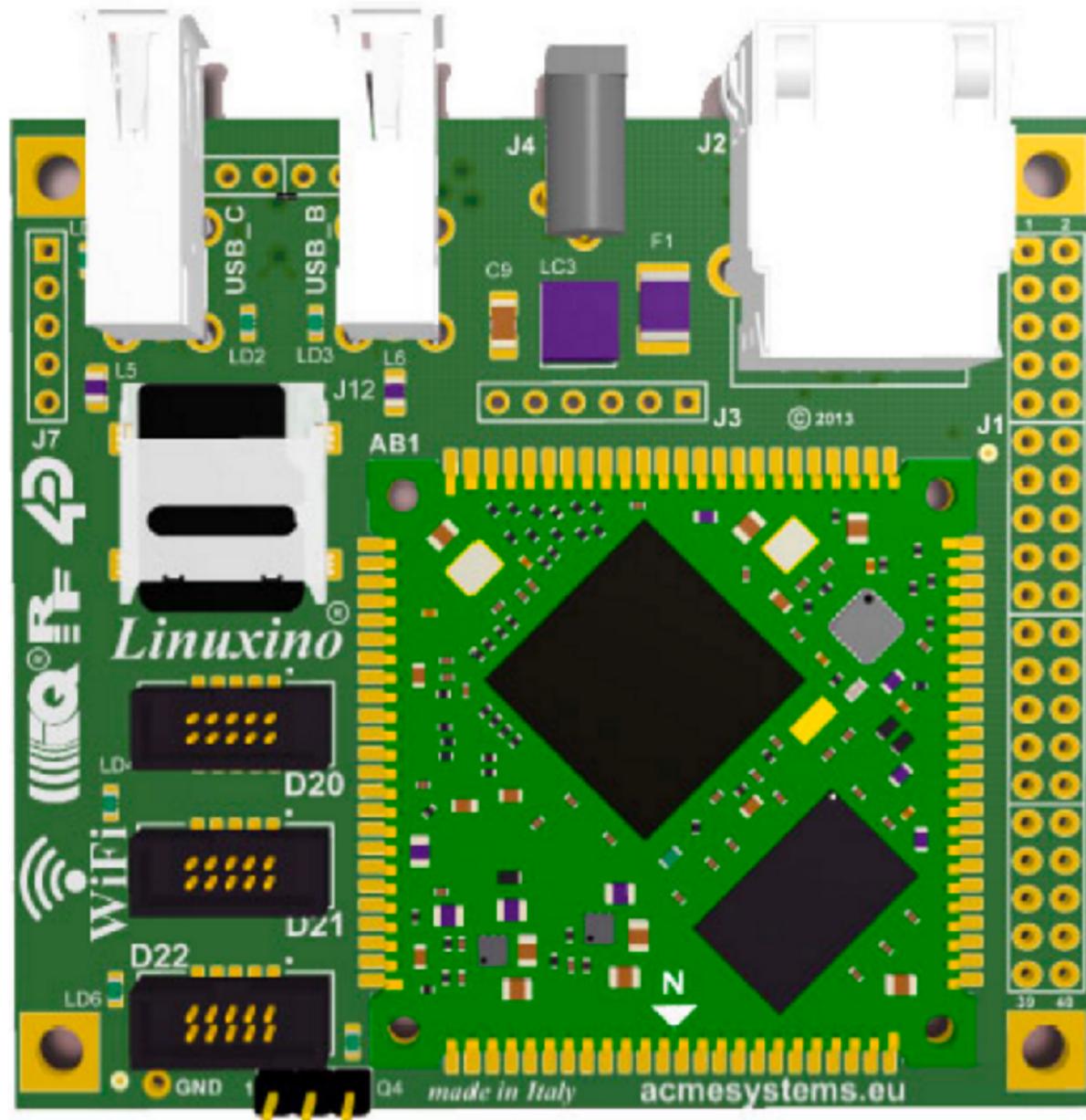
FOX Board LX 832



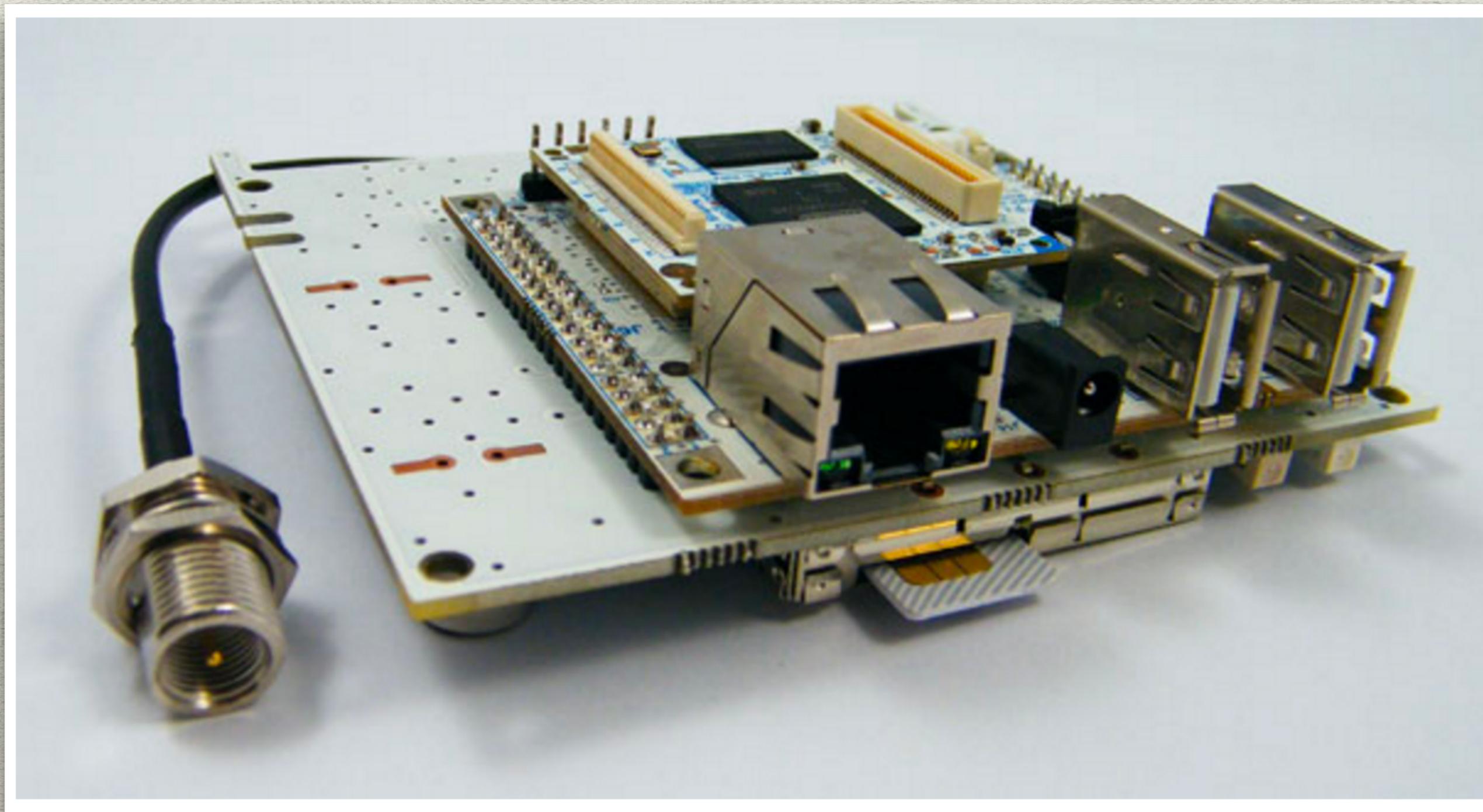
FOX Board MCM



FOX Board G25 (mai realizzata)



FOX GM2 per applicazioni GPRS



GPRS e GPS evaluation Kit

GPS and GPRS application kit for M2M FOX based projects

Note: This is a discontinued product. Please evaluate to use the [TERRA-M board](#)

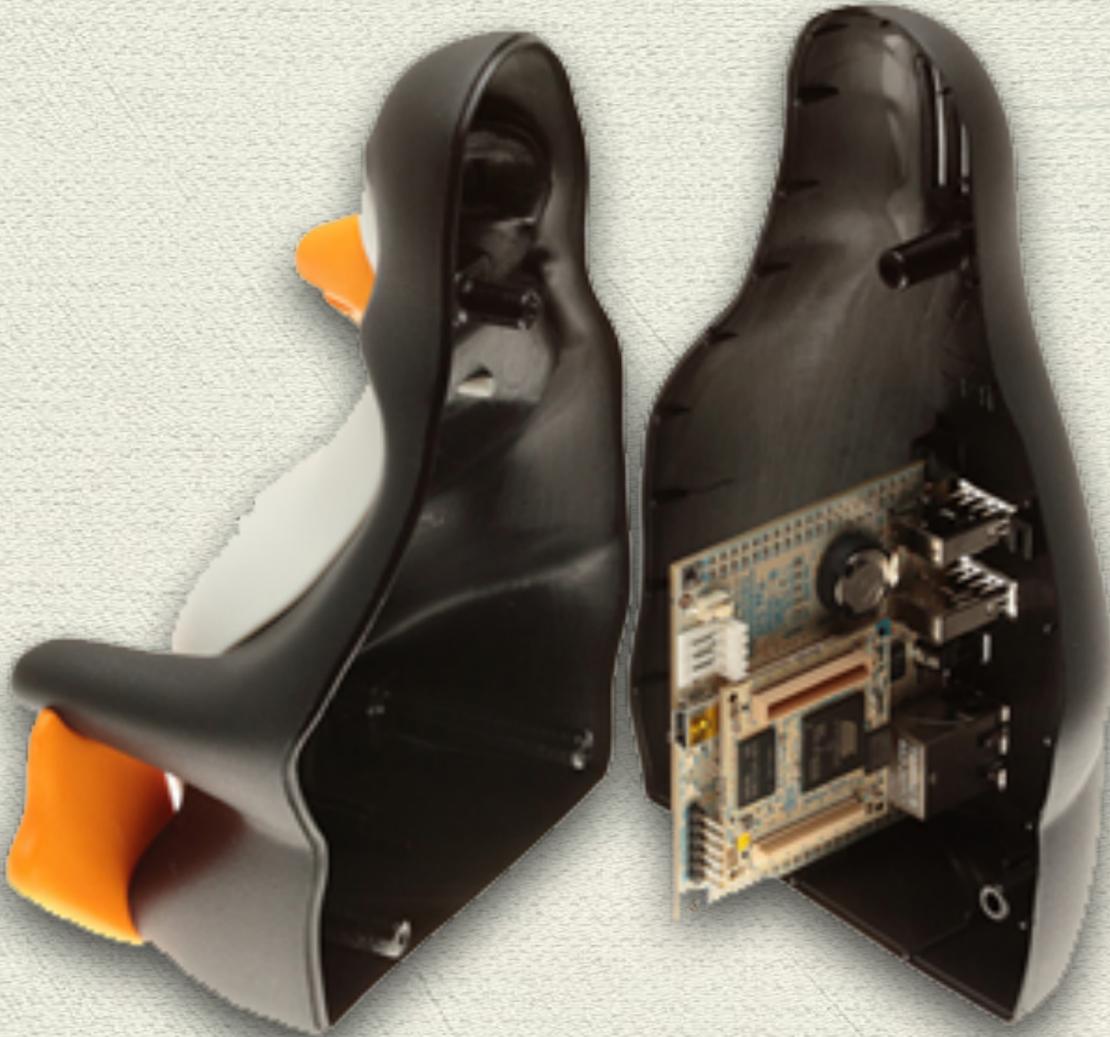
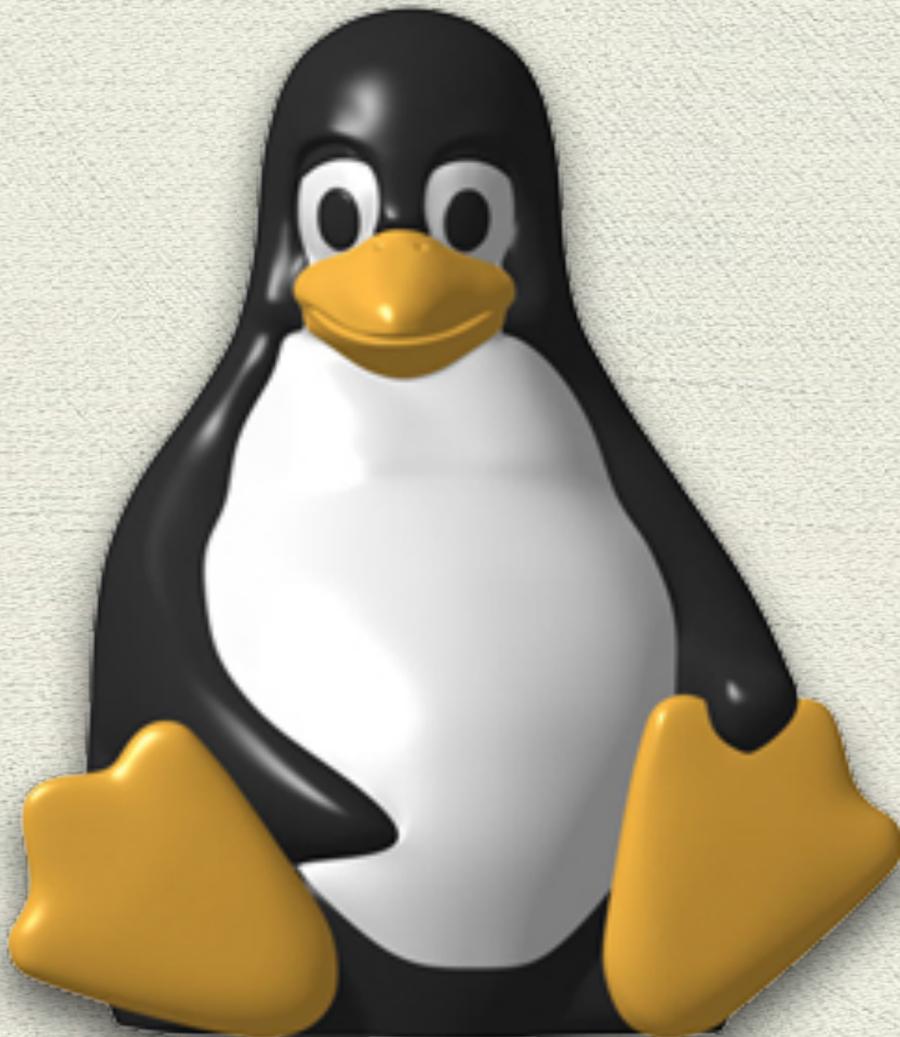
FOXGPS and FOXGPRS includes all parts you need to design your own M2M application based on the FOX Board LX



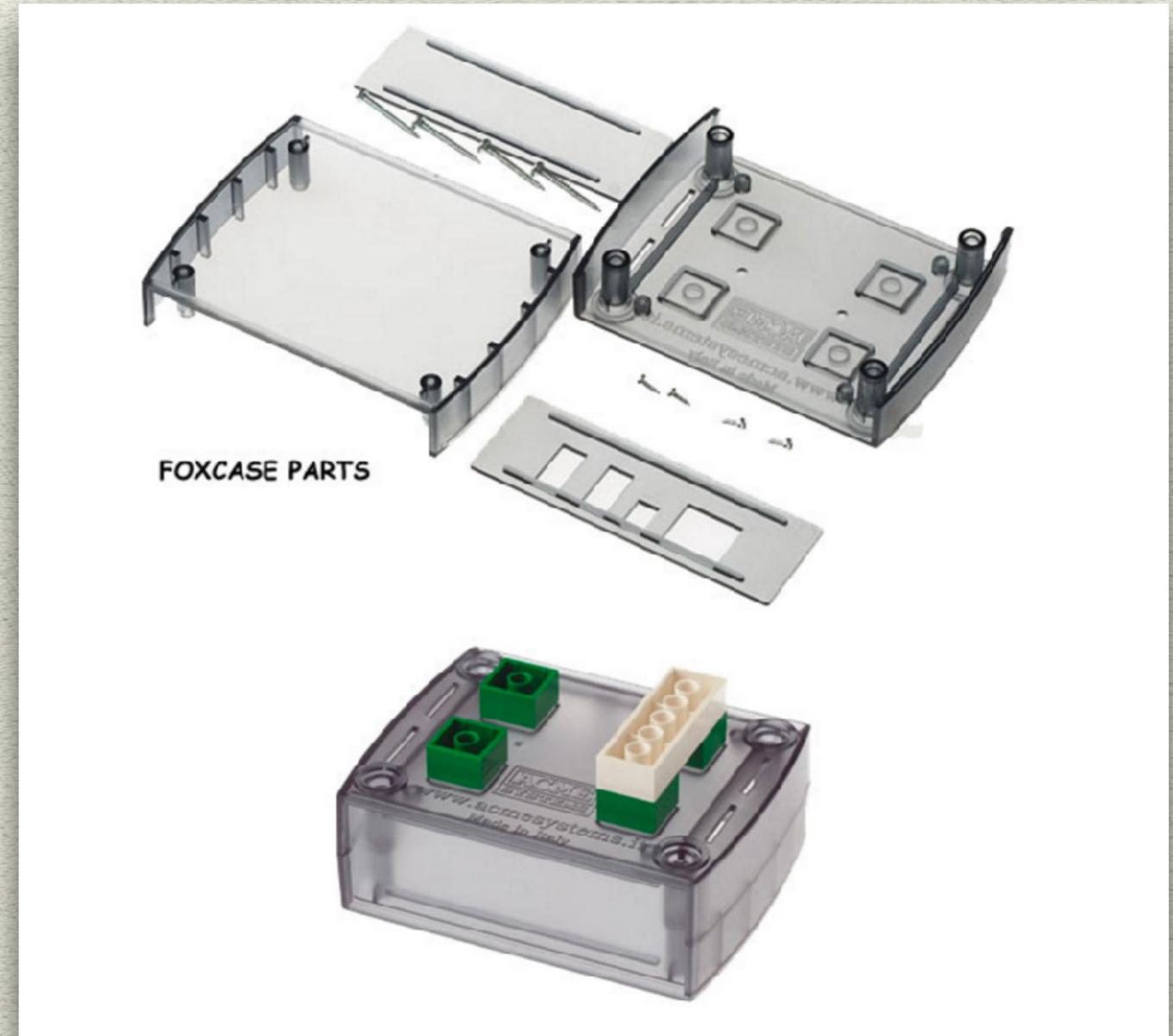
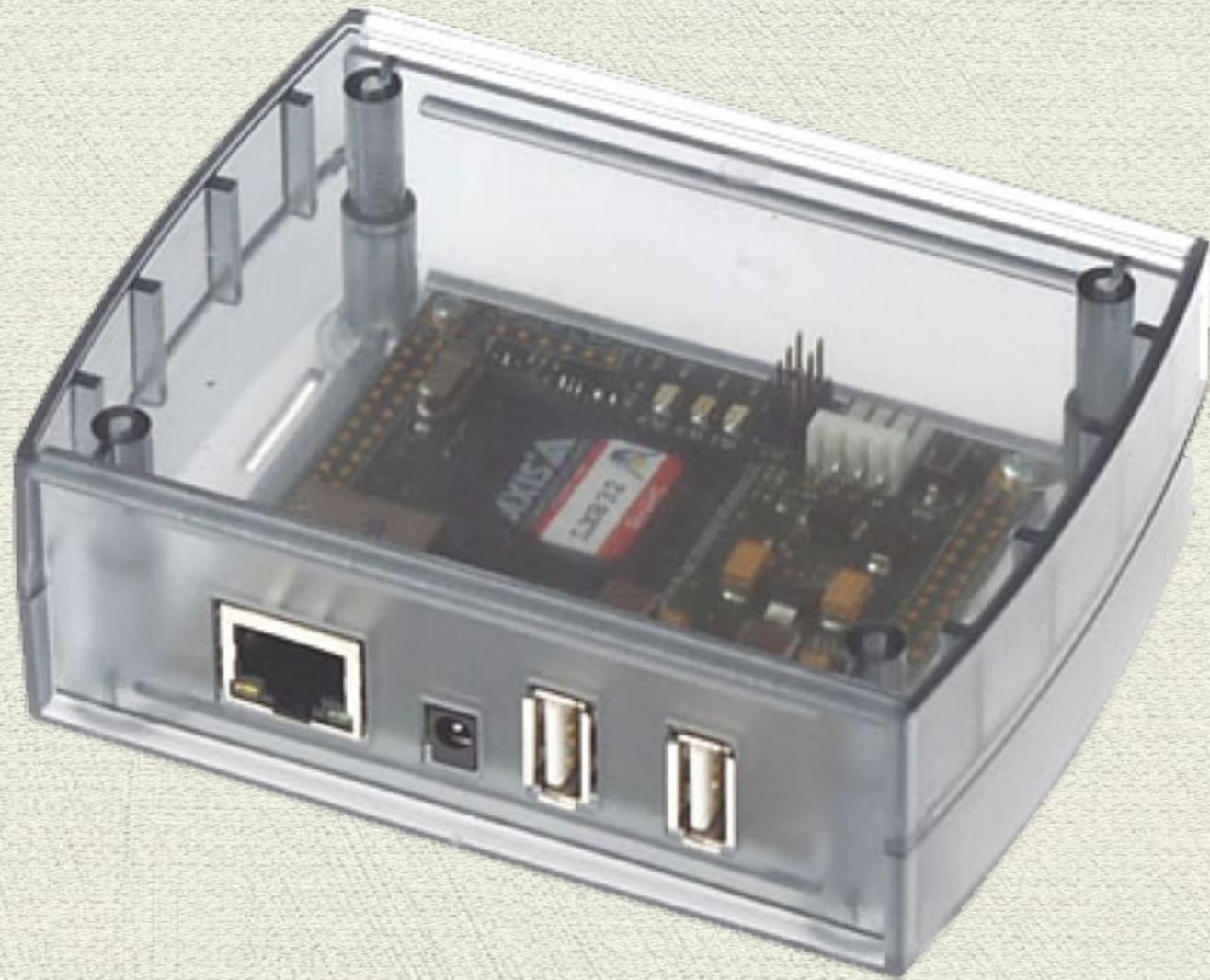
FOXGPS kit parts

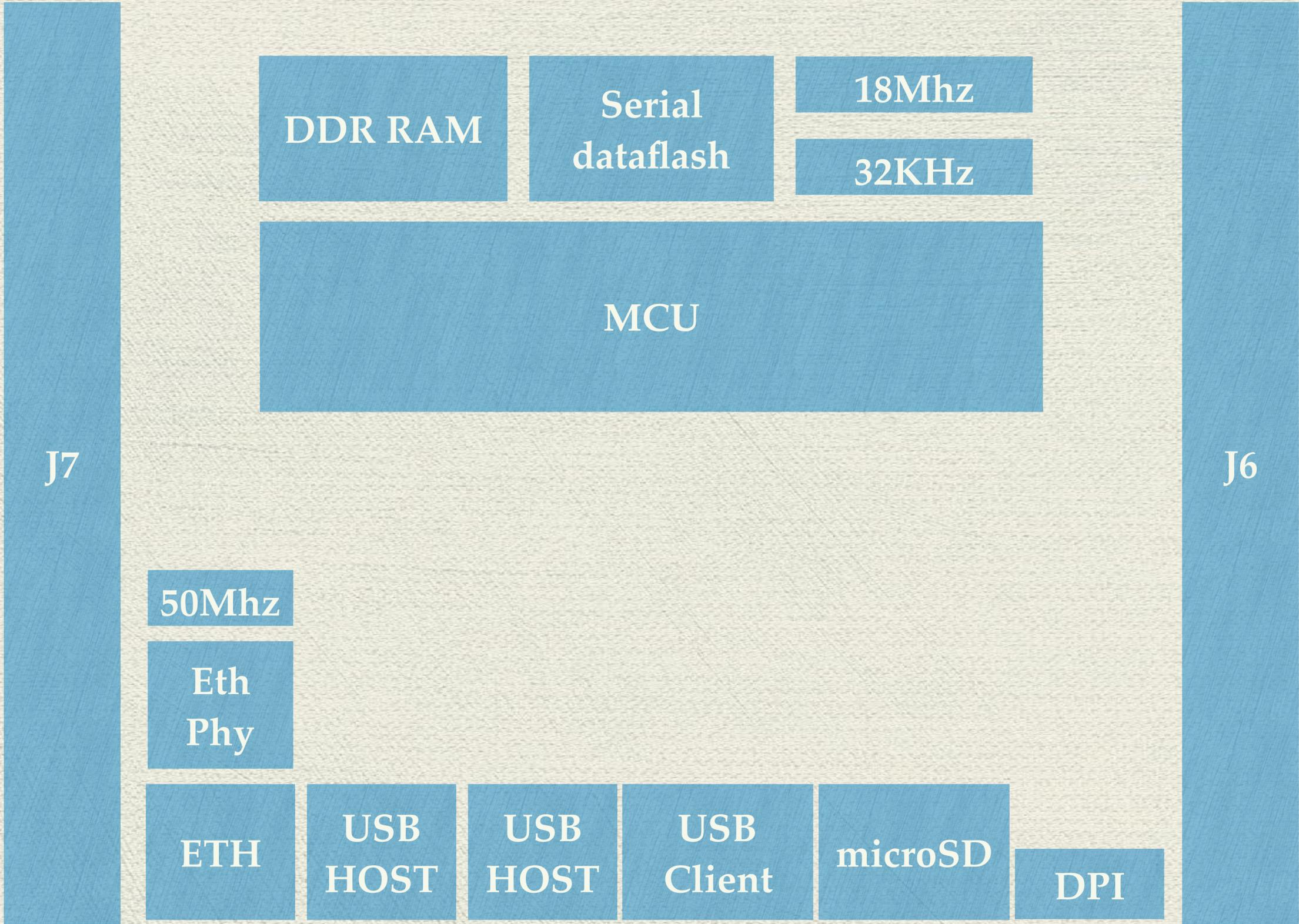
The main difference between GPS and GPRS kit is the Telit modem that includes or not a GPS section.

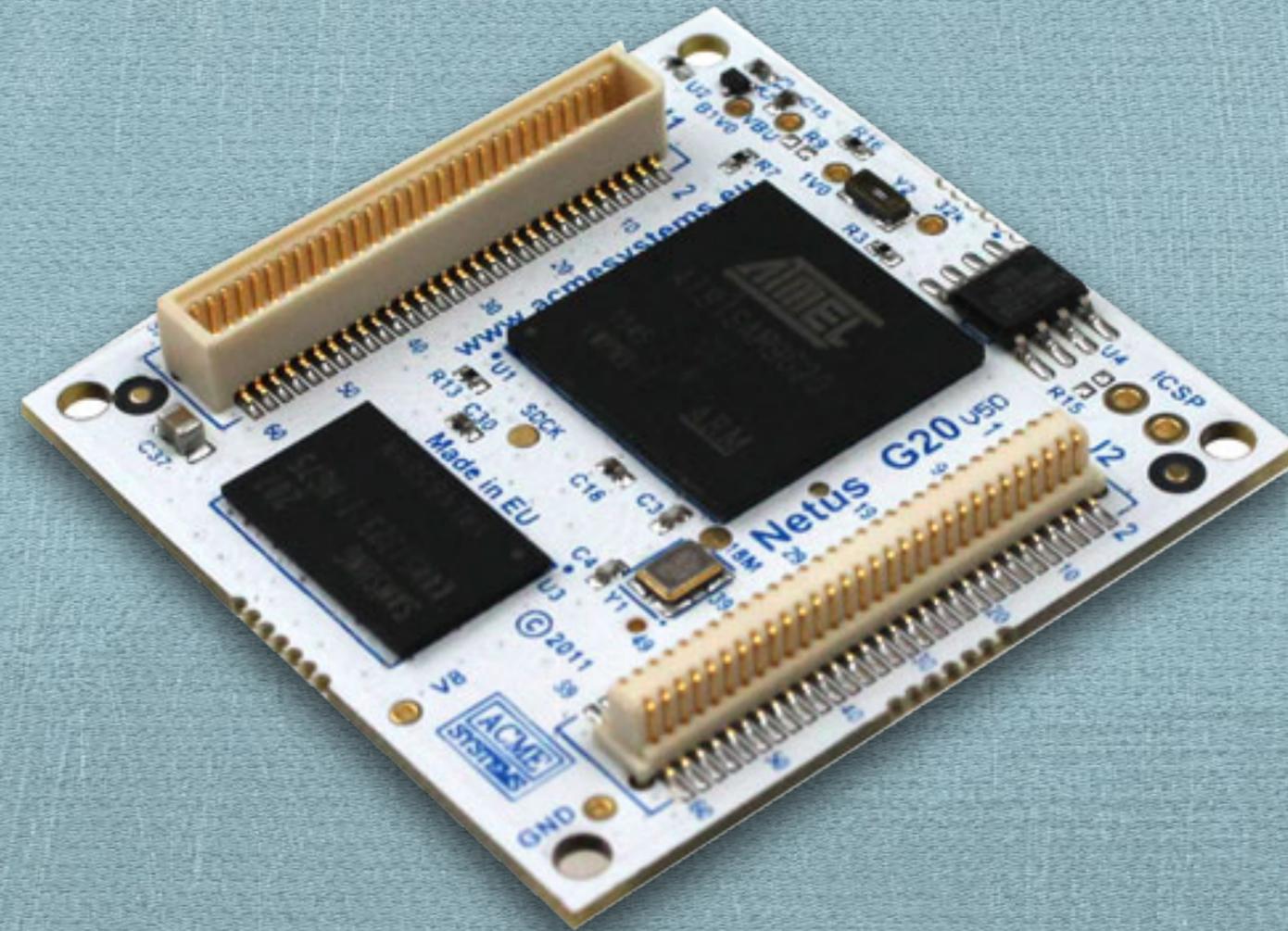
TUX Case



FOX Case



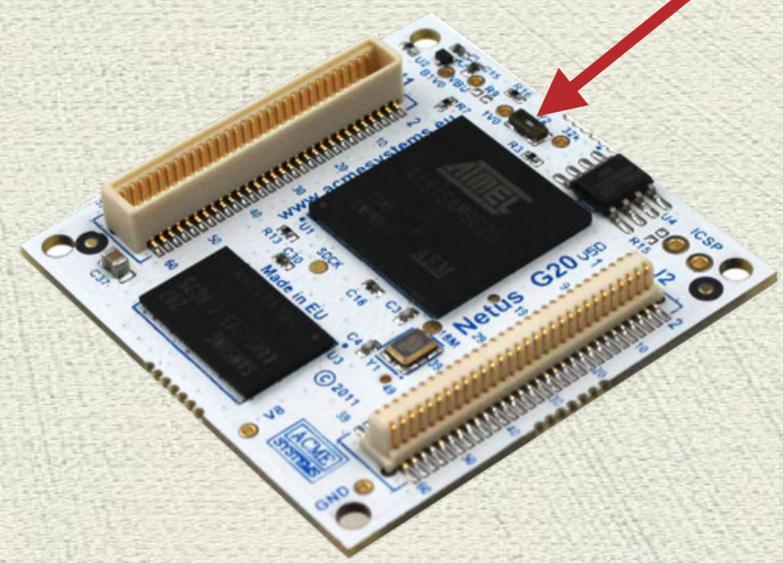
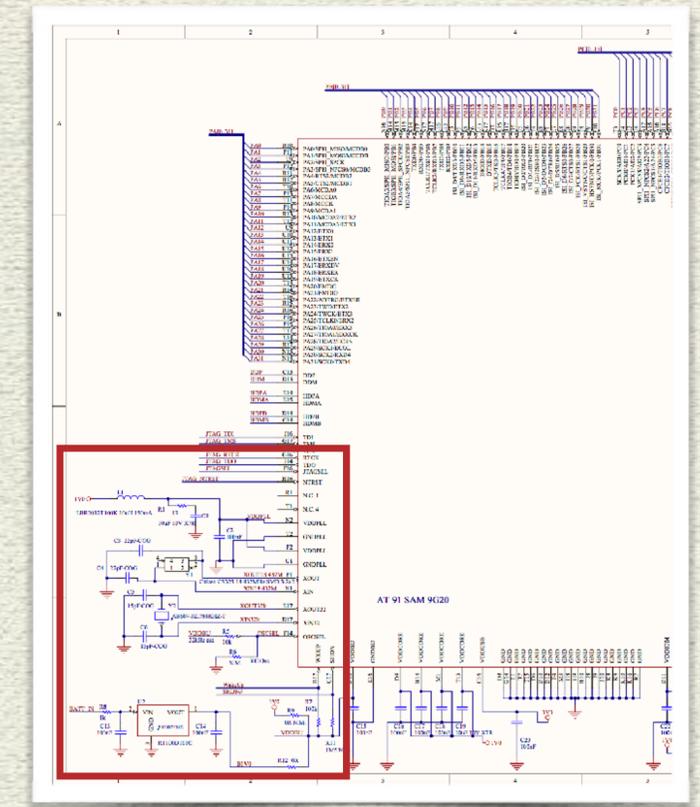
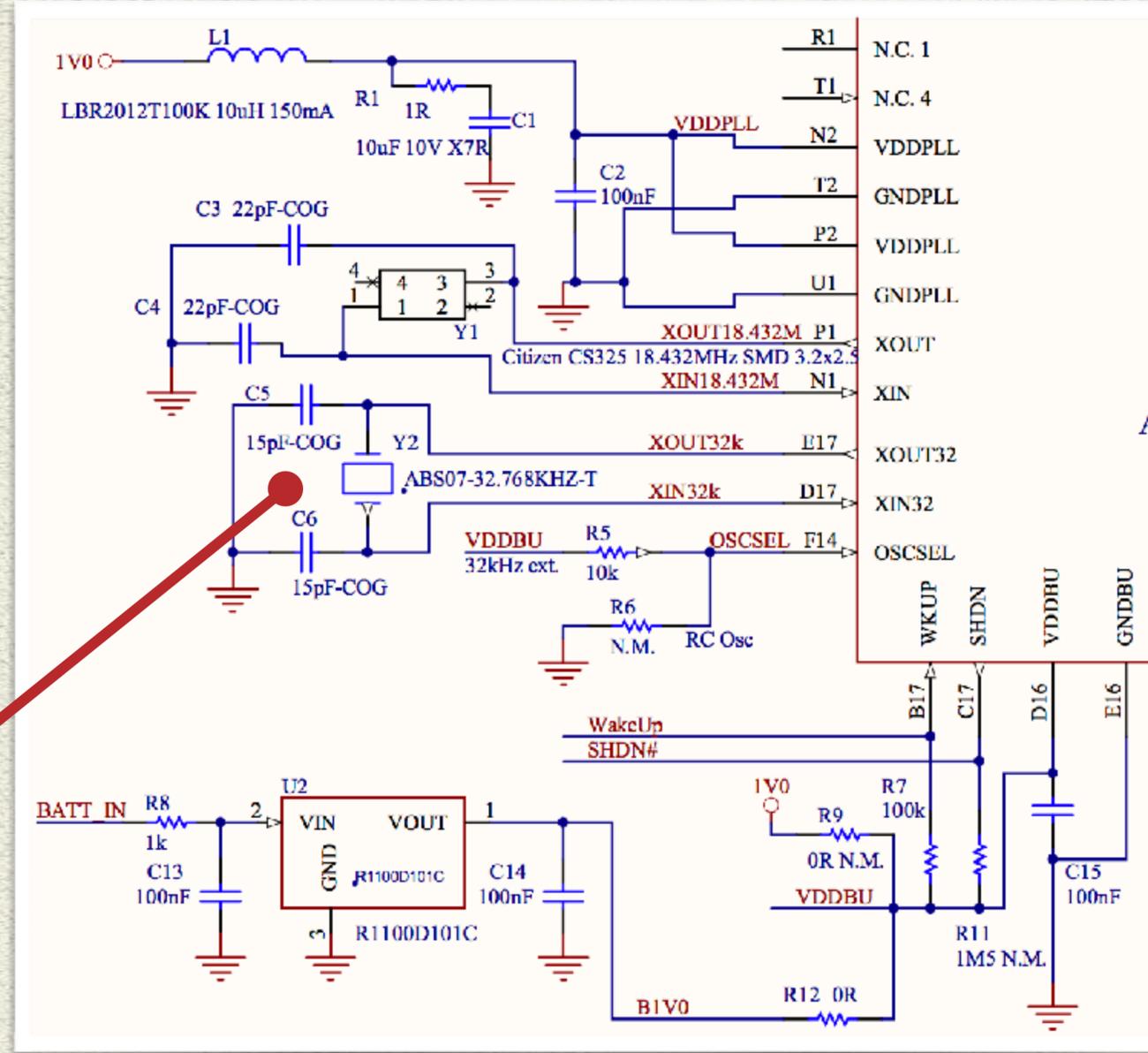




Modulo Netus G20

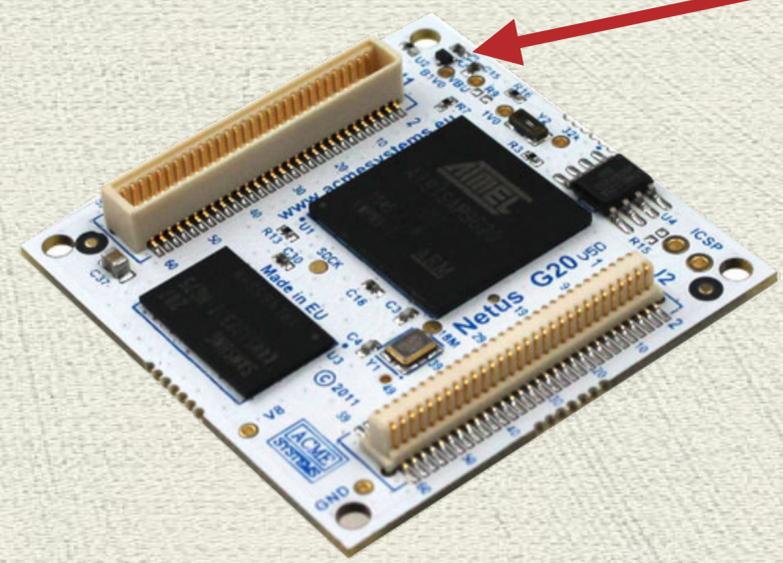
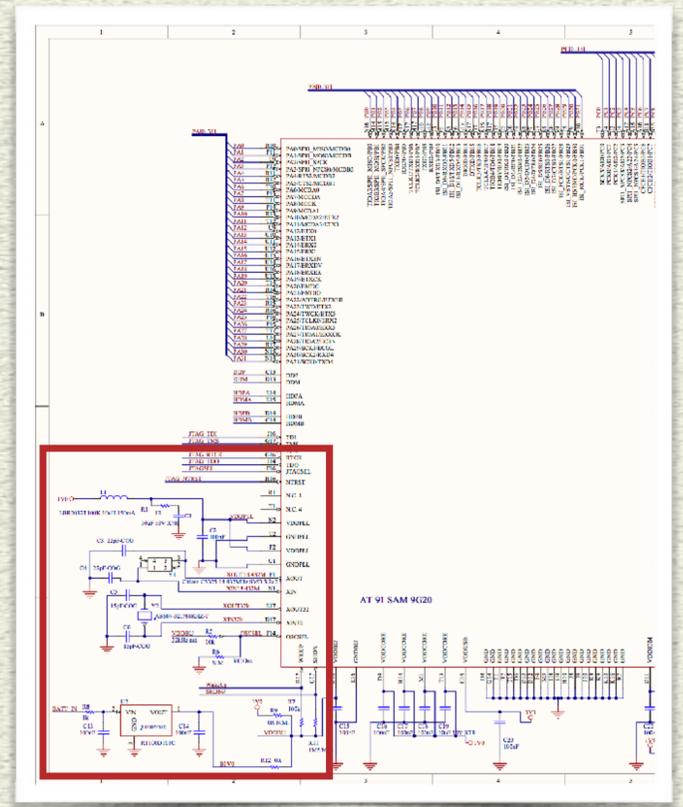
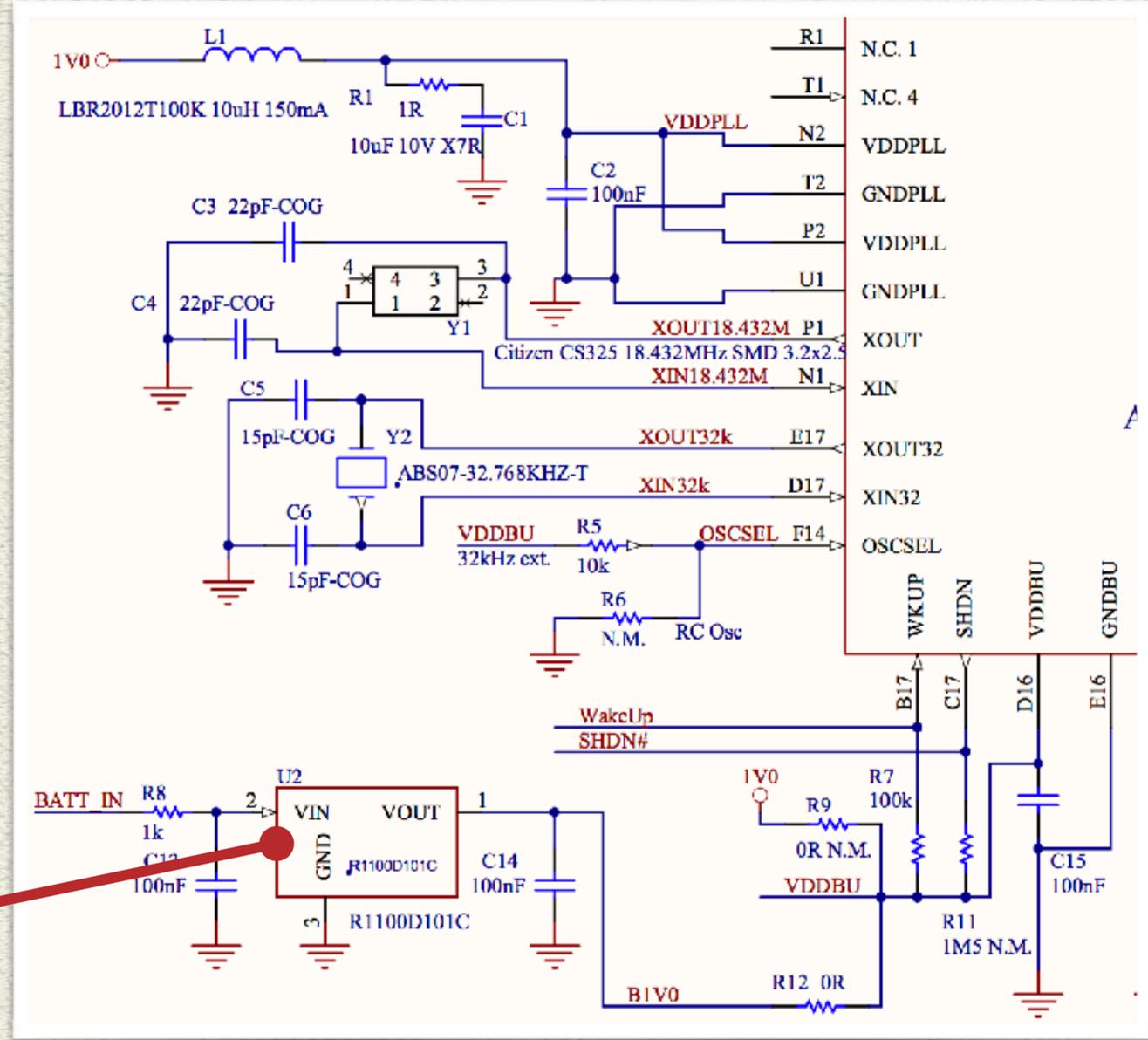
Quarzo da 32.768 KHz

Usato come base dei tempi per l'orologio RTC (Real Time Clock)



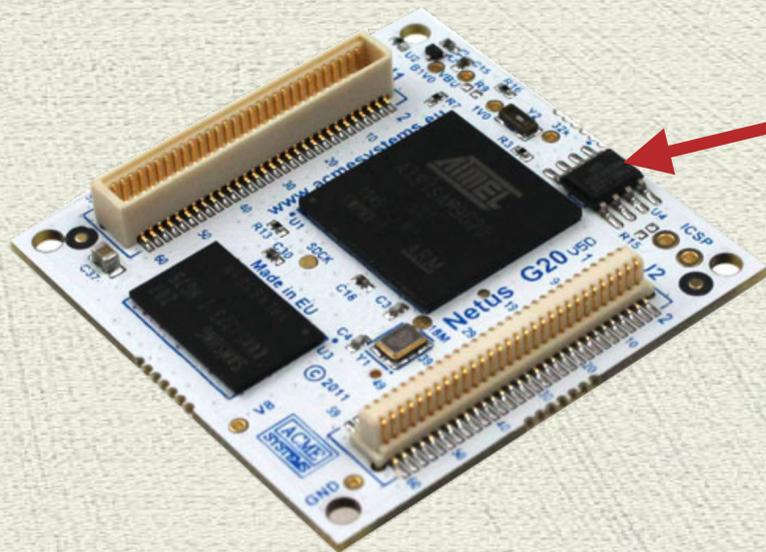
LDO converter

Genera 1 volt partendo dalla tensione della batteria tampone per l'RTC a 3 volt.

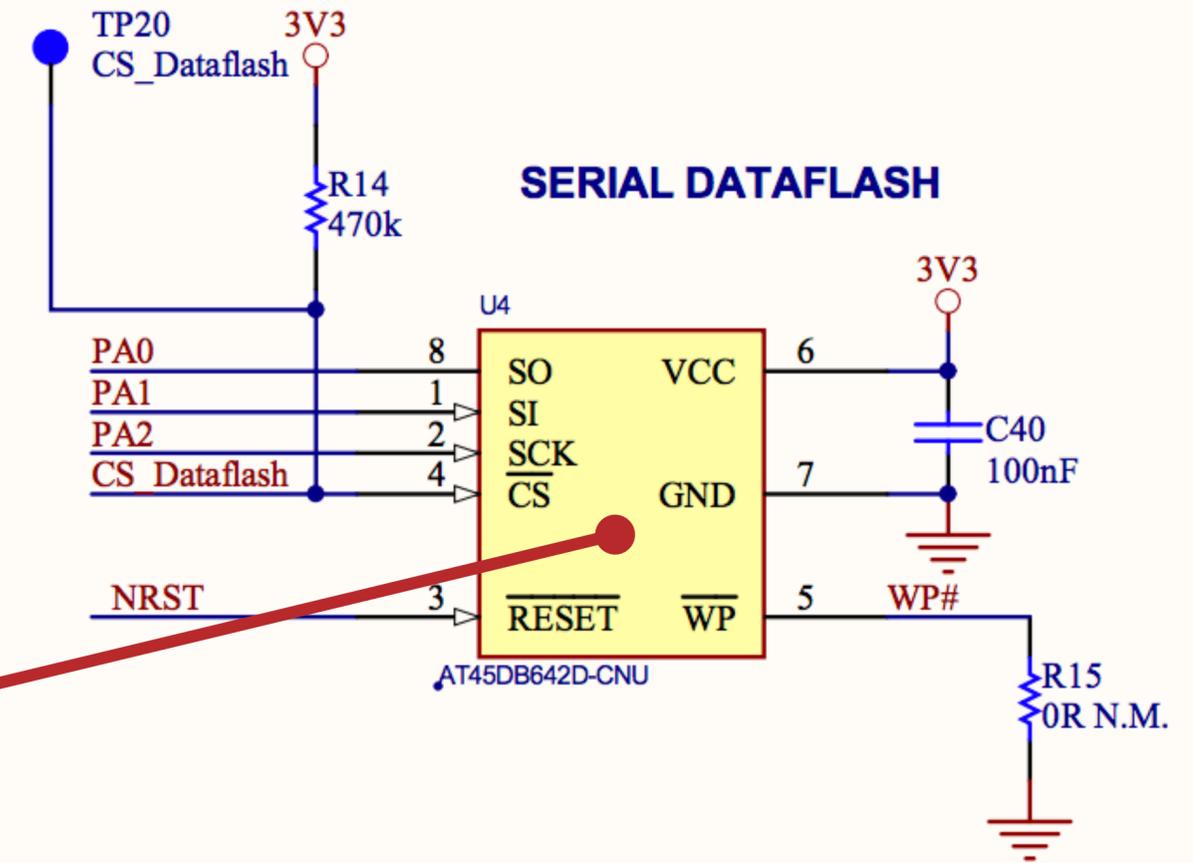


Serial Dataflash da 256KByte

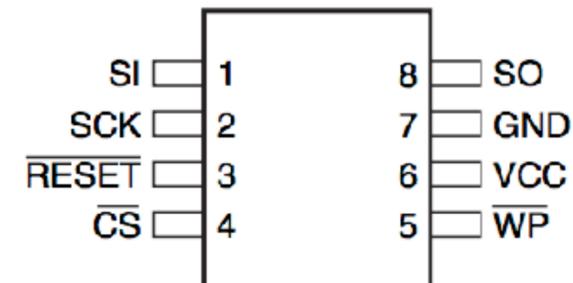
Memoria su bus SPI su cui viene installato AcmeBoot (fork di AT91Bootstrap) caricato direttamente da RomBOOT



Short To Force Start RomBoot



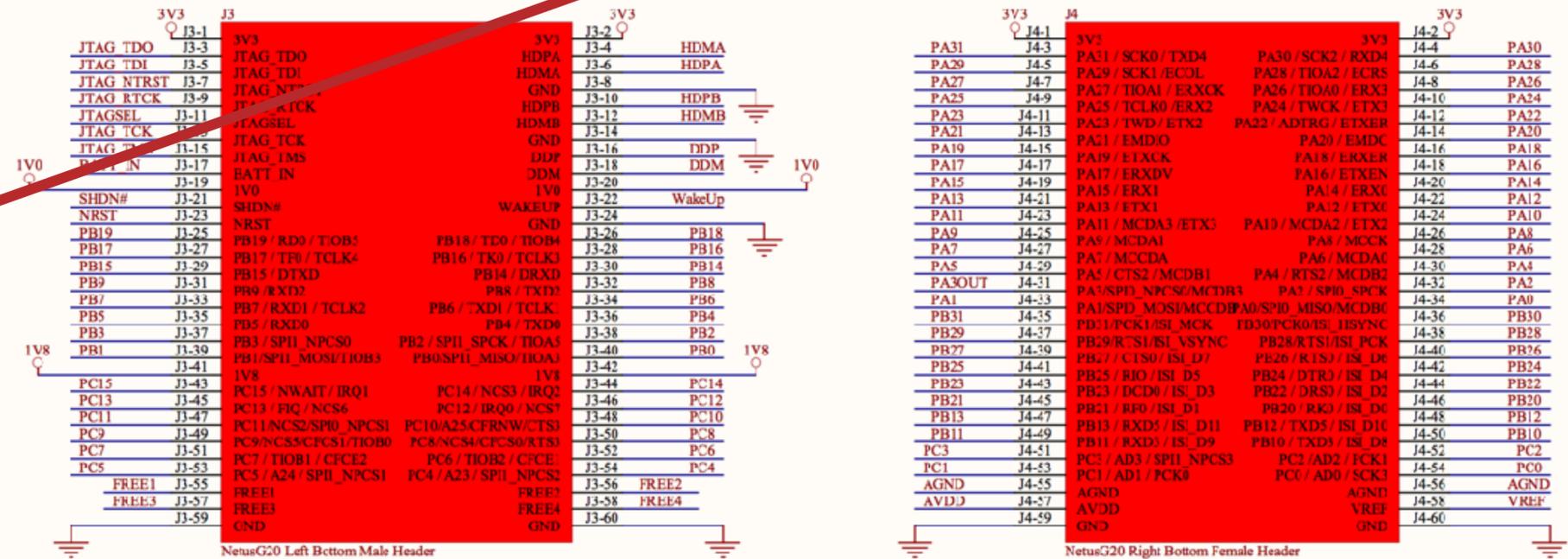
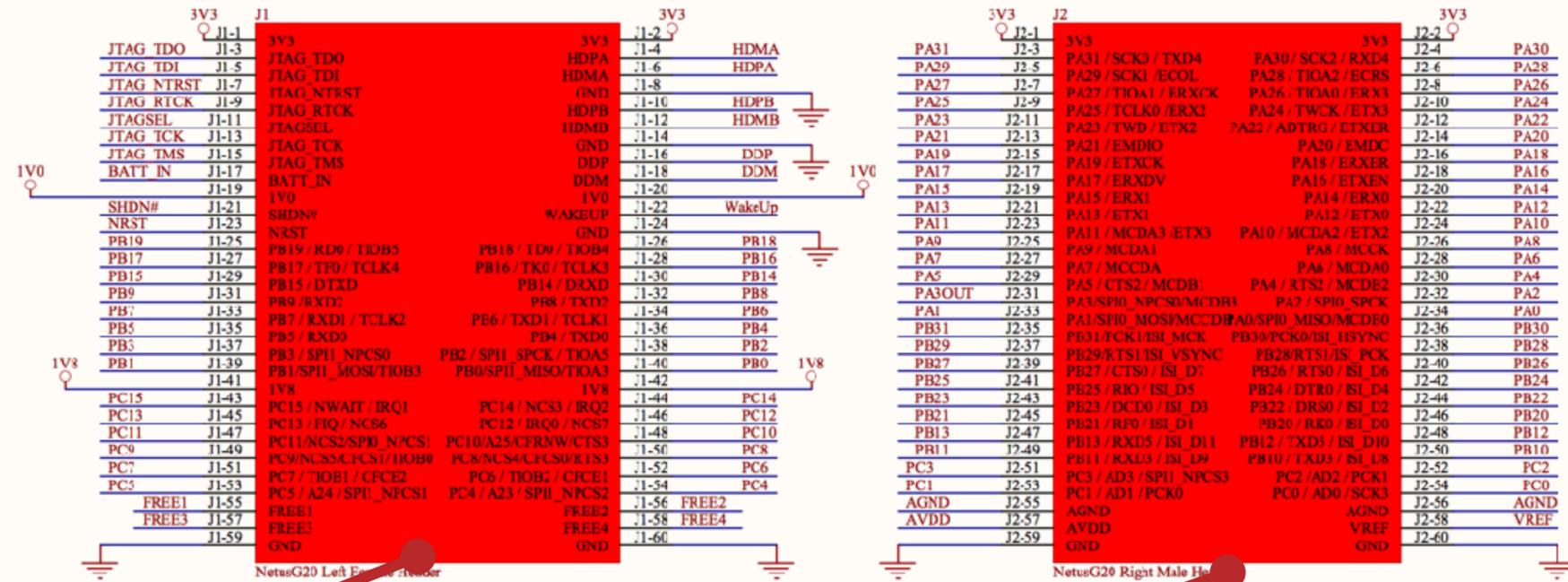
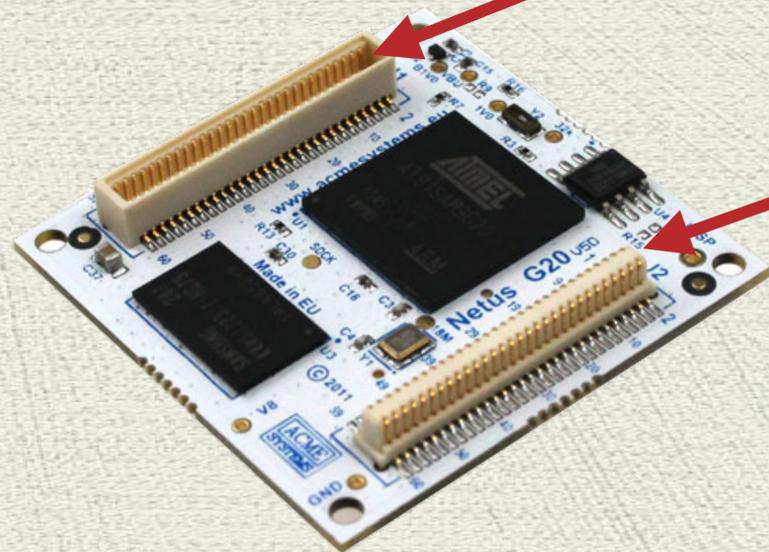
SOIC Top View

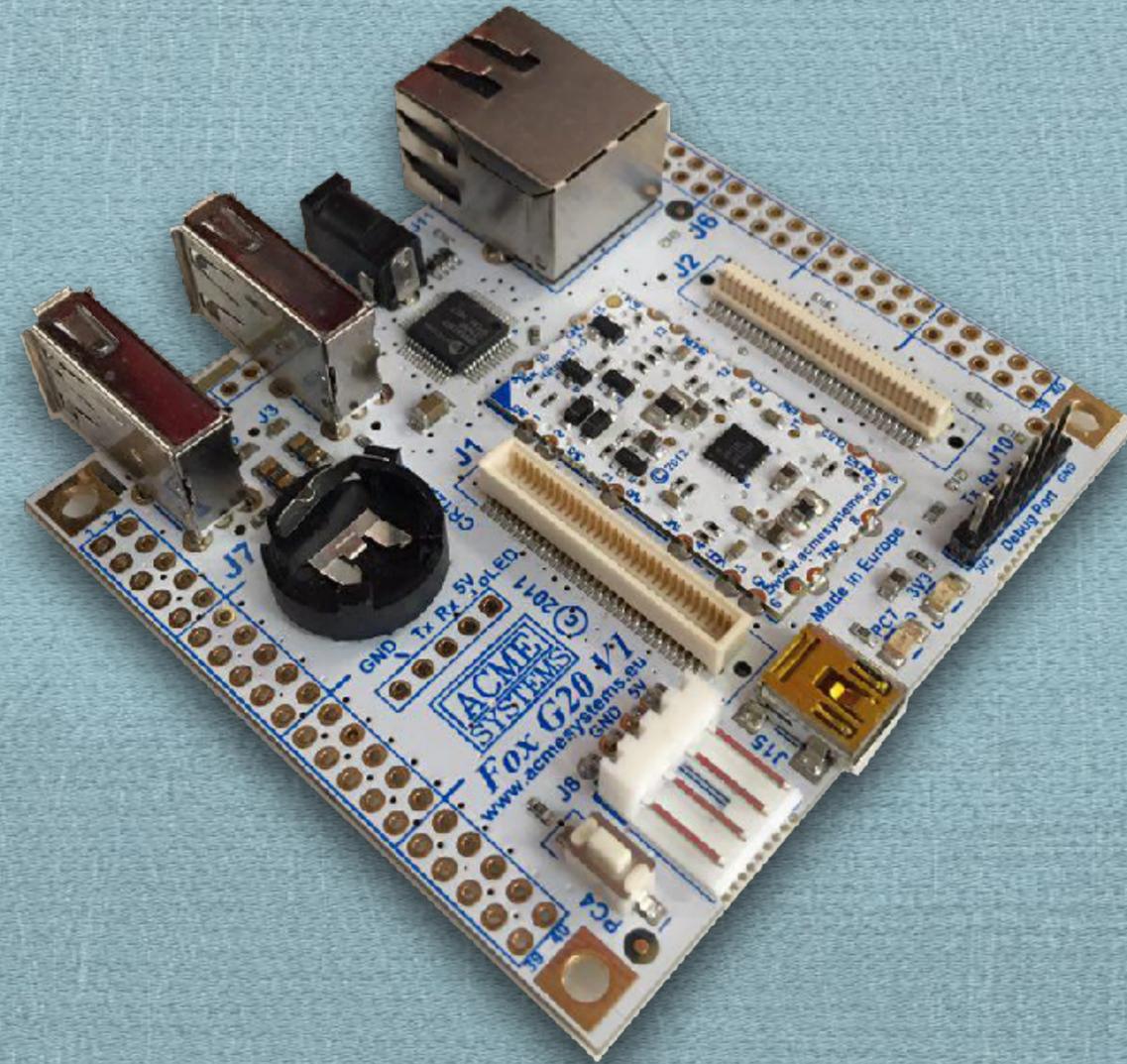


Connettori a 60 pin

Quelli lato bottom trasportano i segnali sulla base FOX

Quelli lato top venivano usati per la DAISY-1

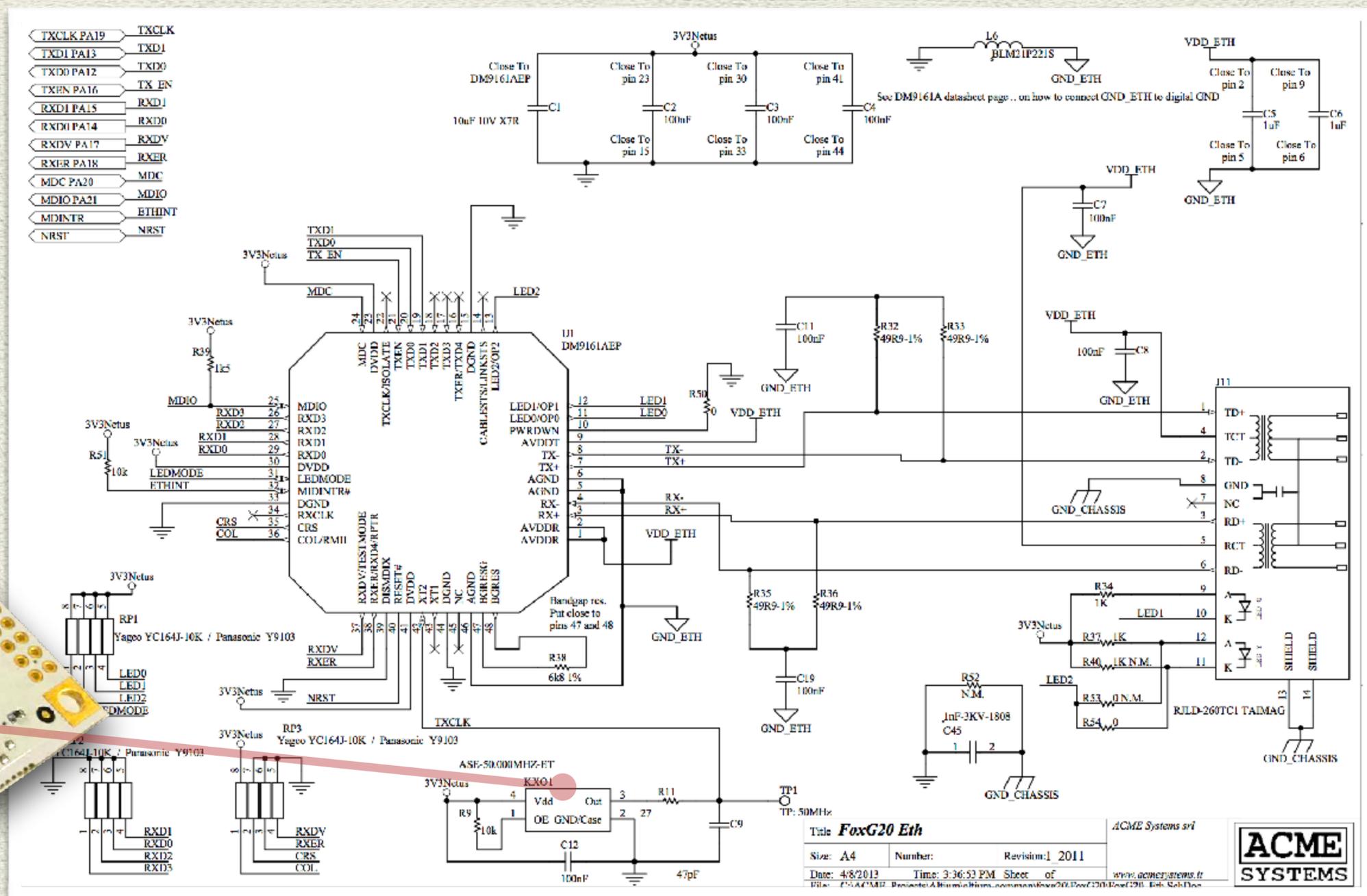
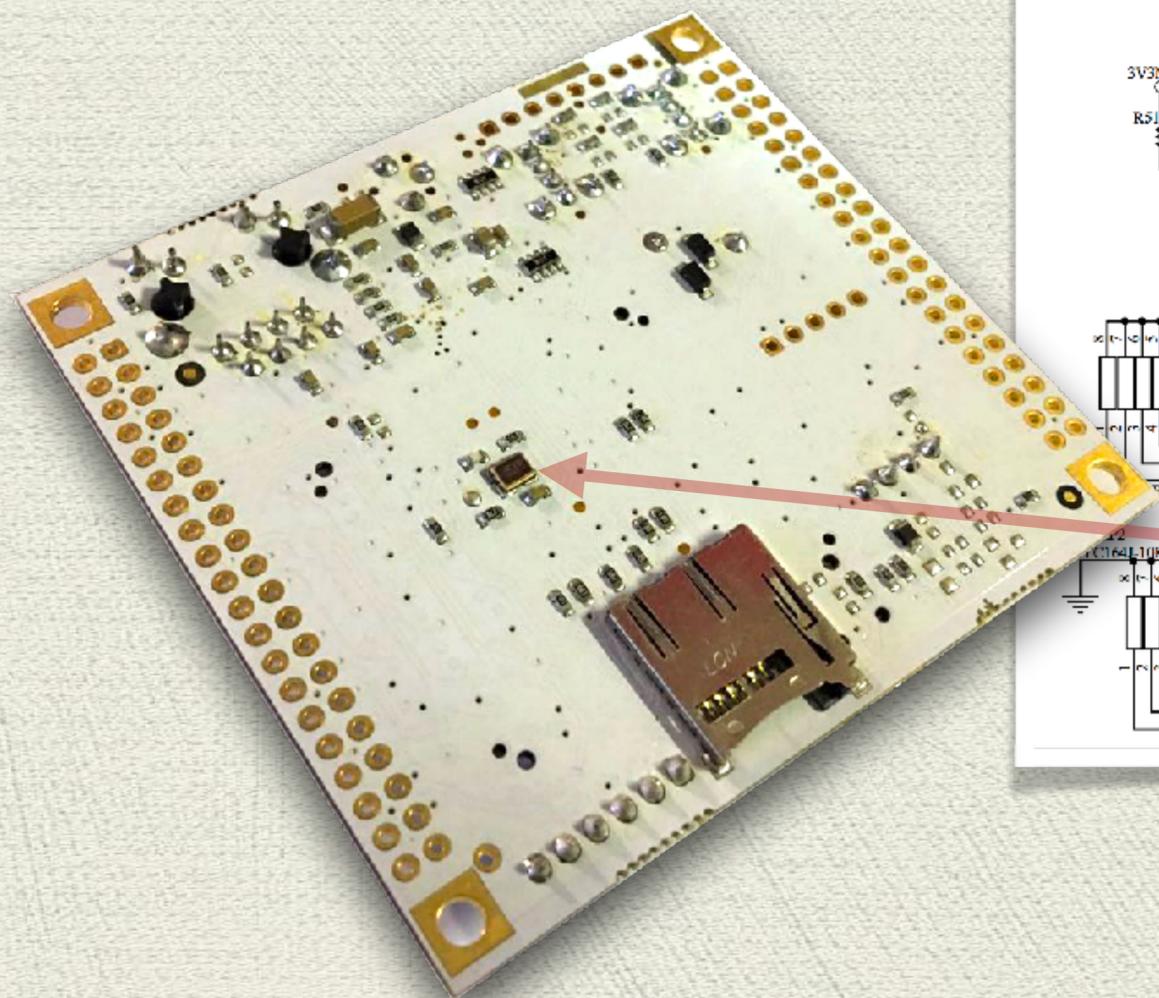




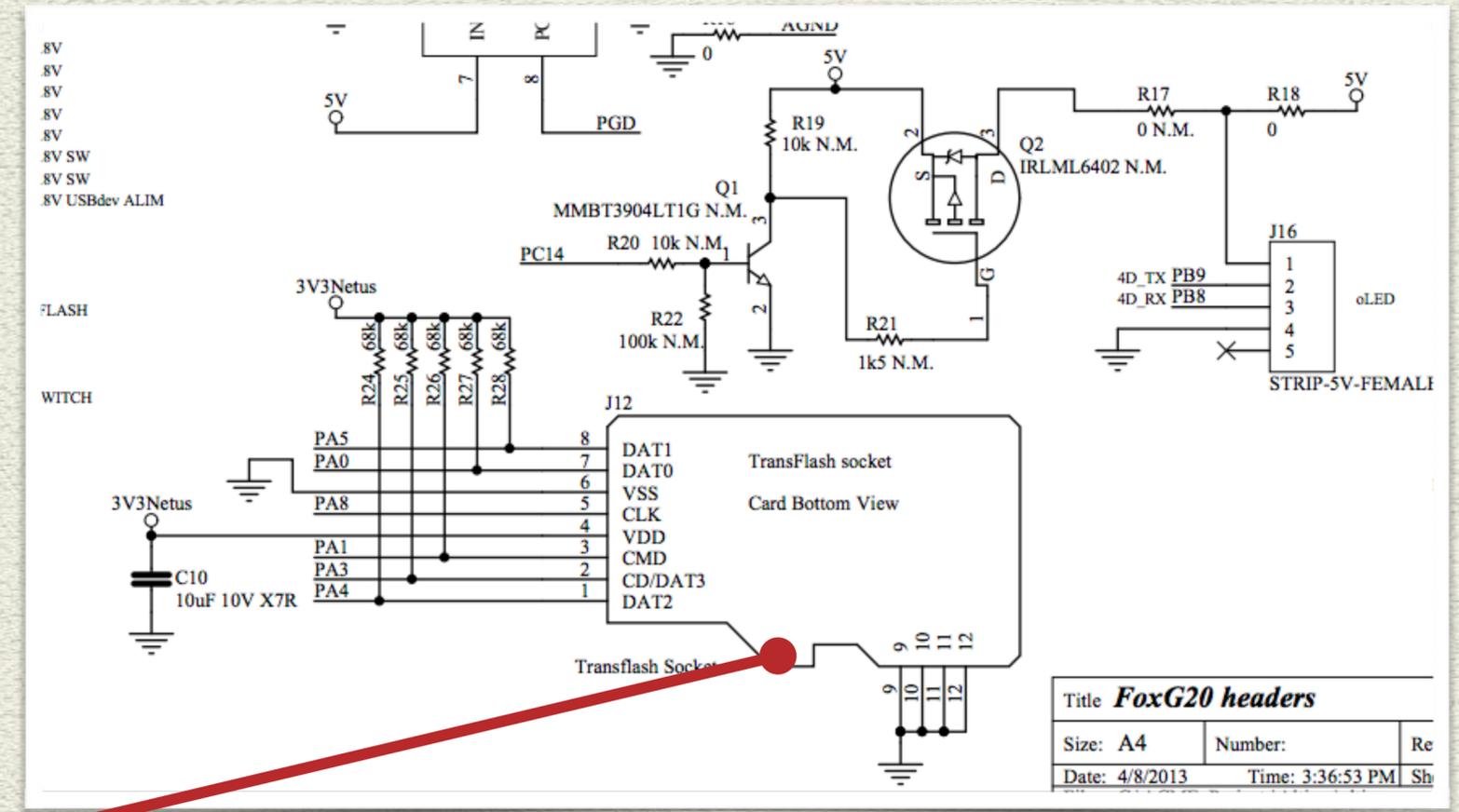
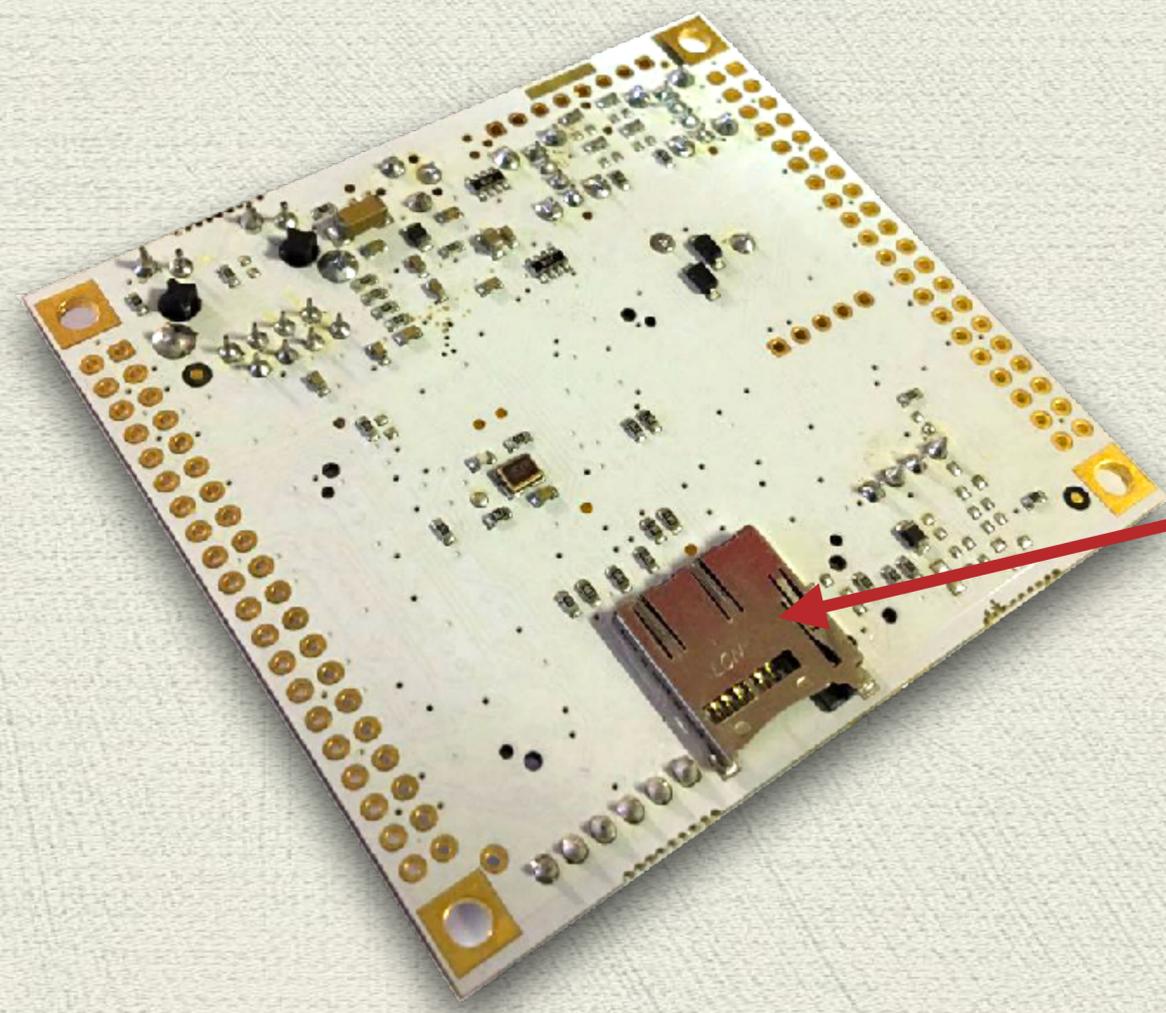
Base FOX

Oscillatore quarzato da 50 MHz

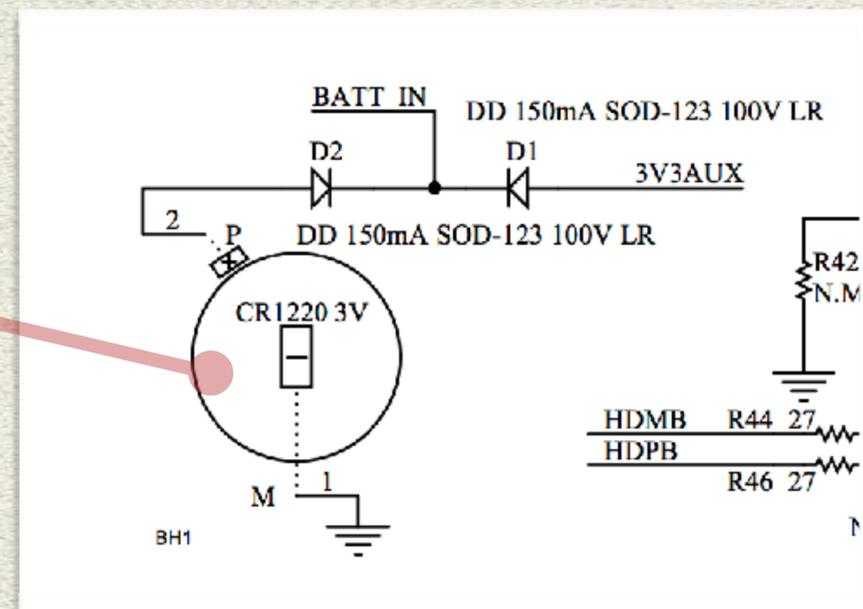
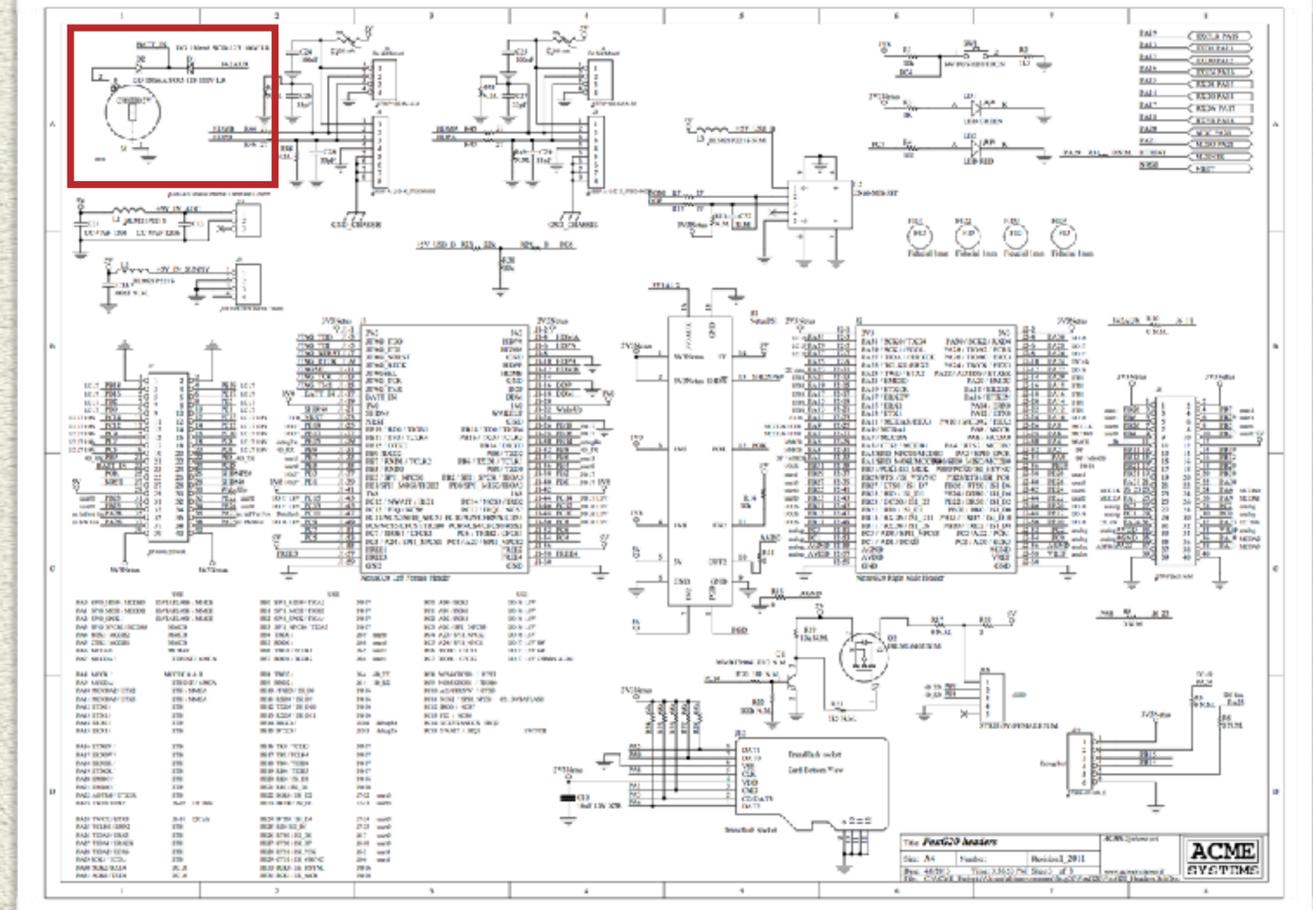
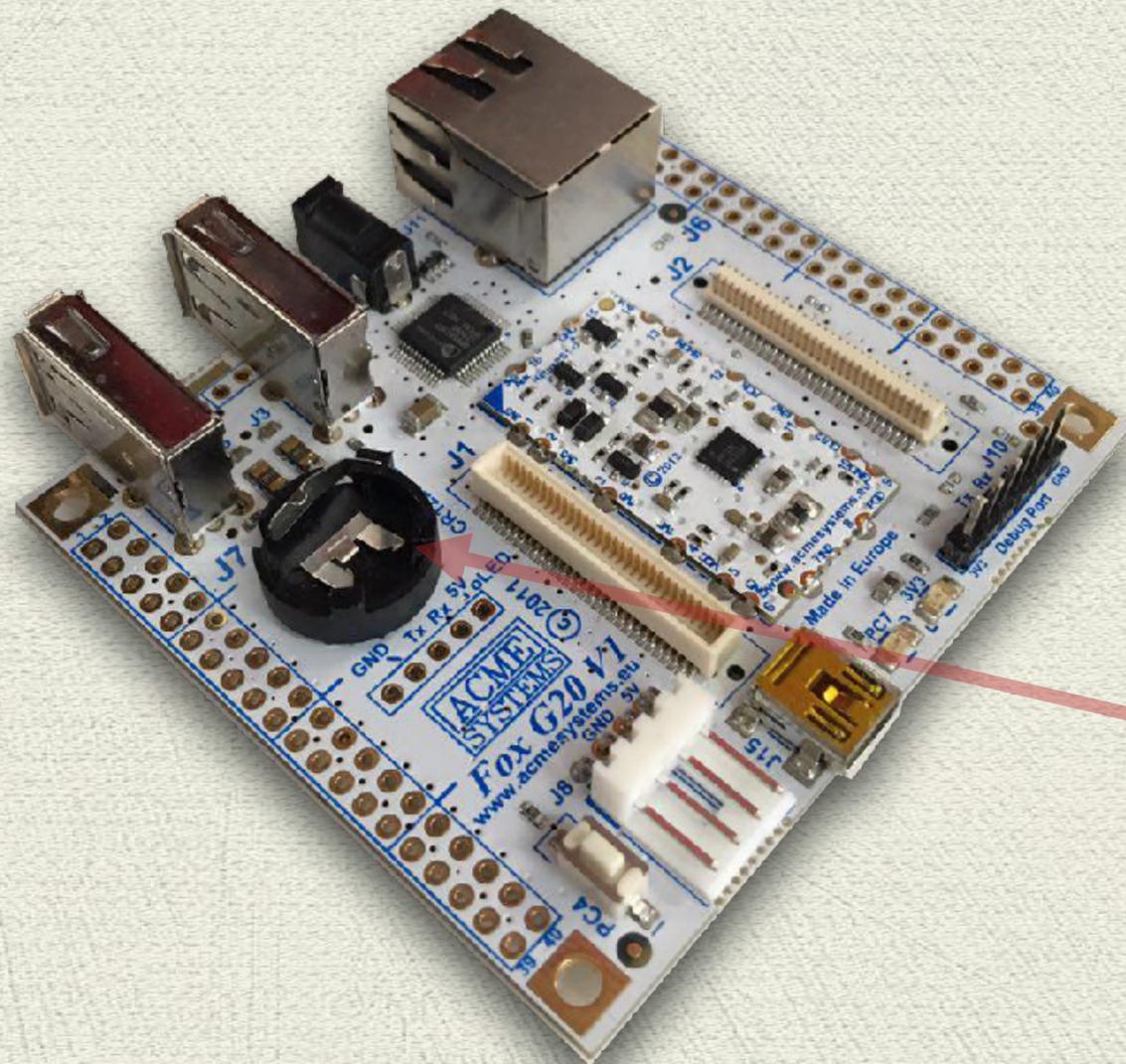
Usato per il clock porta Ethernet

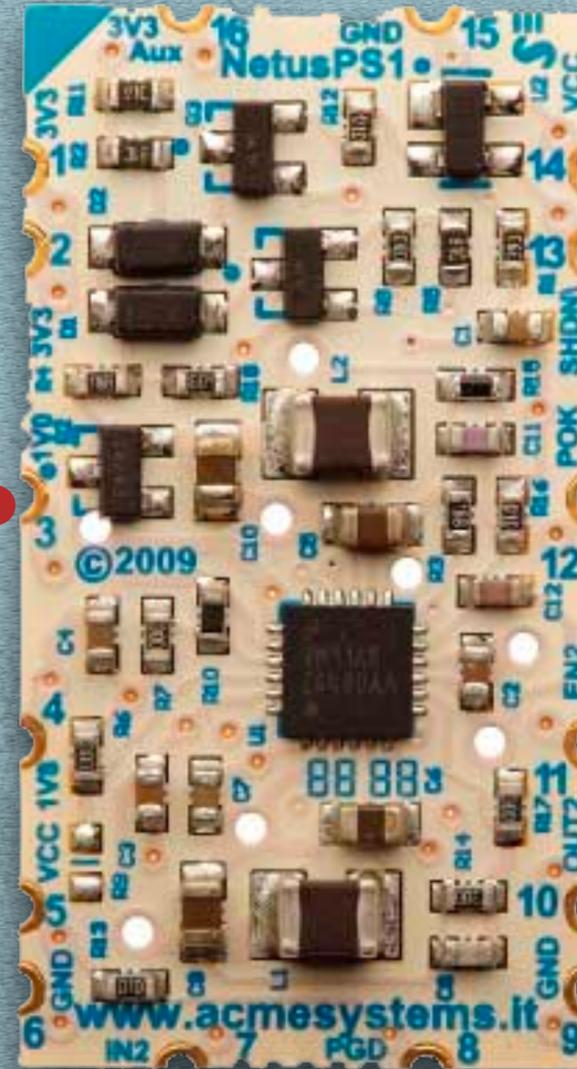
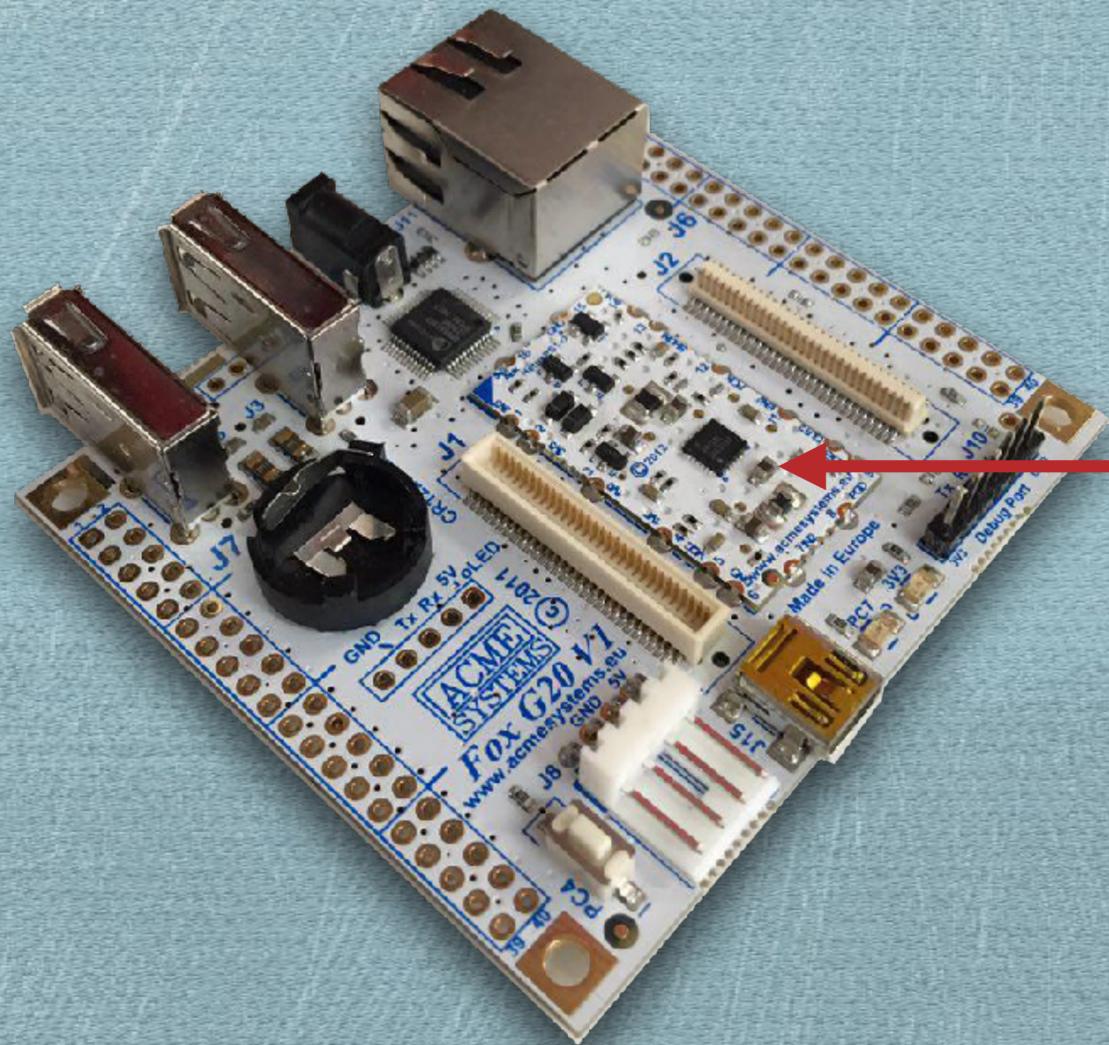


Socket push-pull per microSD



Alloggiamento batteria litio 3 volt CR1220 per RTC





Modulo di alimentazione che fornisce le tensioni richieste dal micro Atmel con accensione e spegnimento nelle giuste sequenze.

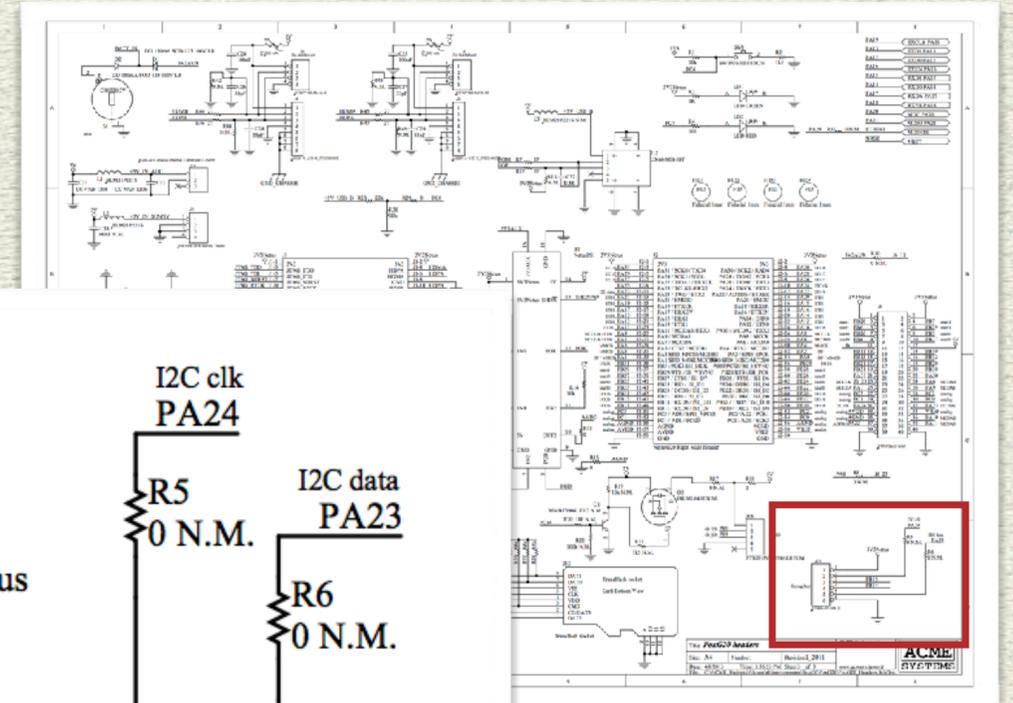
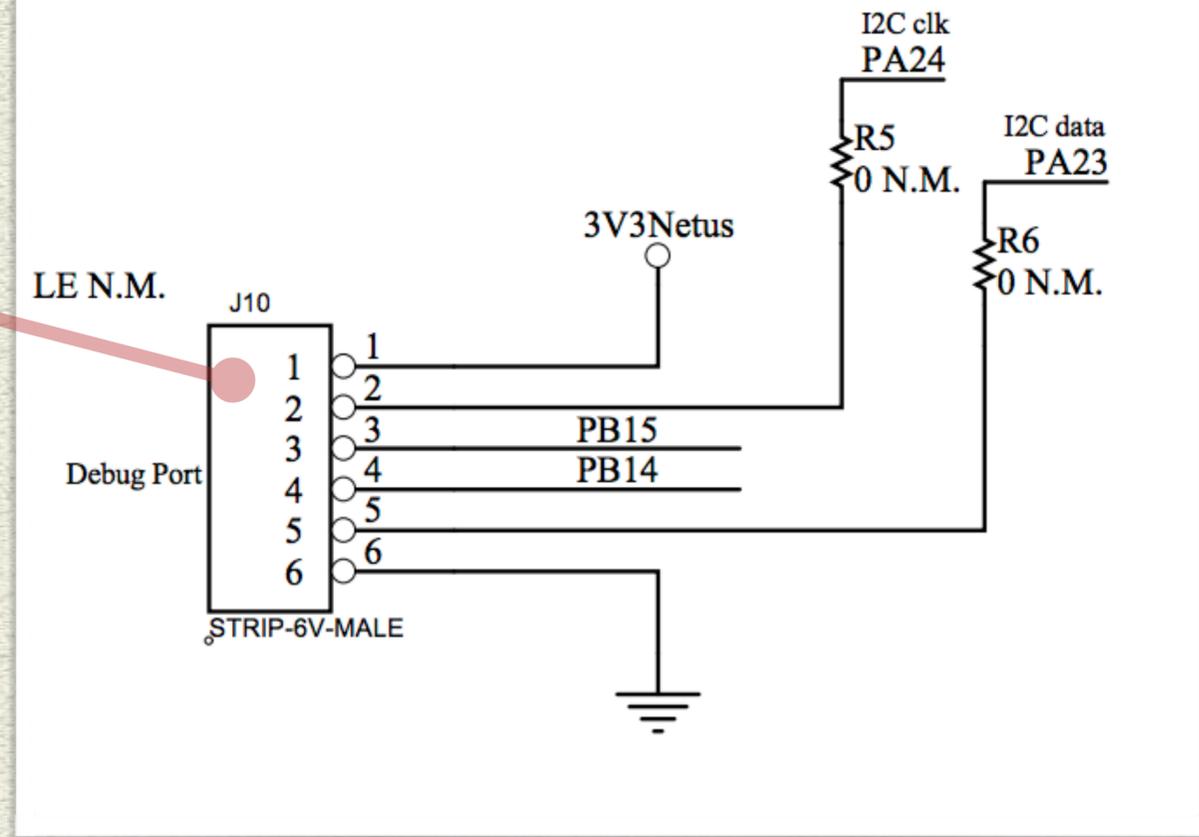
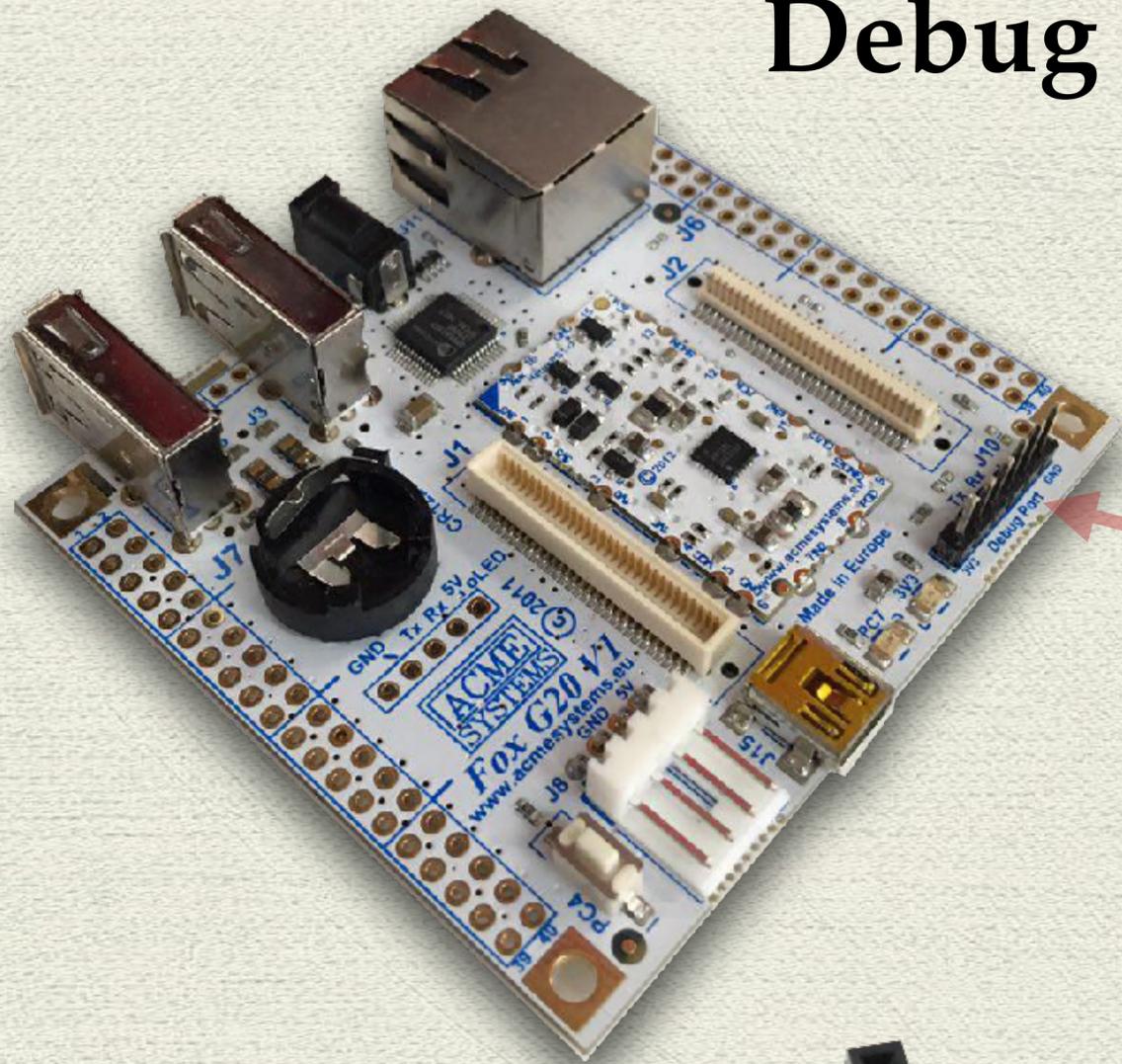
Ingresso 5 volt DC
Uscite:

- 3.3 Volt @ 500 mA
- 1.8 Volt
- 1.0 Volt

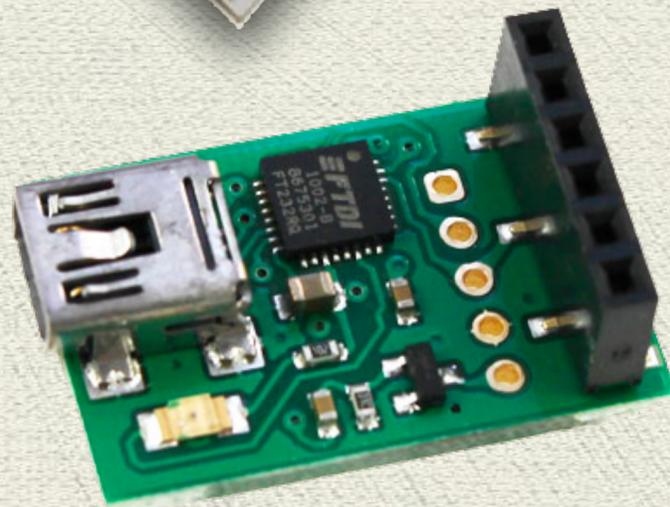
Modulo di alimentazione PS1

<http://www.acmesystems.it/NETUSPS1>

Debug port



USB



RX/TX RS232 3V3 volt

Dove fornire alimentazione

