

Page 2

OEM board connector interface and
Expansion connectors

Page 3

JTAG interface, ETM interface, QVGA interface,
Ethernet interface and Reset key&LED

Page 4

Analog inputs, I2C: LEDs and joystick,
Memory card interface, Speaker output and IRQ input

Page 5

UART: USB-to-serial interface, RS232 interface,
Power supply and CAN interface

Page 6

USB OTG interface, USB Host interface
and USB device interface

Rev 1.5

Added J52 and updated J11 for touch screen interface.
Added speaker output (design around U15 and SP1).

Rev 1.4

ABUF_EN (J50, pin7) grounded to enable
memory bus interface.

Rev 1.3

Added D6 and C41.

Rev 1.2

Changed J1 into J1 and J2 (new OEM board connector).
Added C66, C71, C72 and C73.
Added J1 and J51 (power pads for expansion connectors).

Rev 1.1

Added configuration jumpers around QVGA connector.
U1 changed from OR to AND gate.
Added R61 and J47 around MMC/SD interface.
Changed U4 & U5 to MIC29302. Changed R31 to 680R.
Added J30/31/38/40 for RF module interface.
Added R62, LED16, U14 and J48.

Rev 1.0

Original revision



© Embedded Artists AB

TITLE: OEM Base Board Basic v1.5

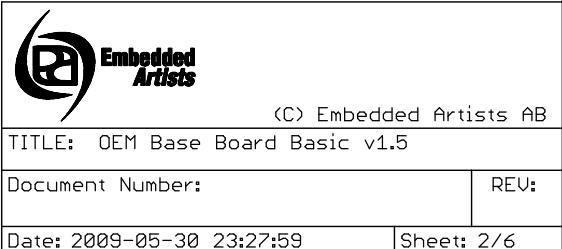
Document Number:

REV:

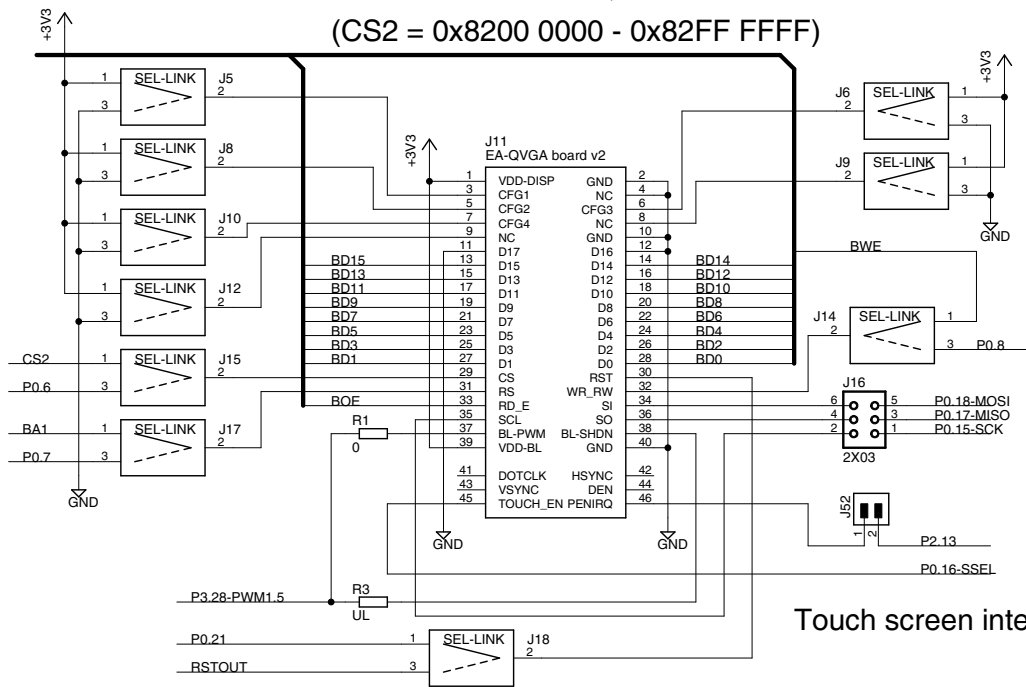
Date: 2009-05-30 23:27:59

Sheet: 1/6

UL = UnLoaded = normally not mounted component.

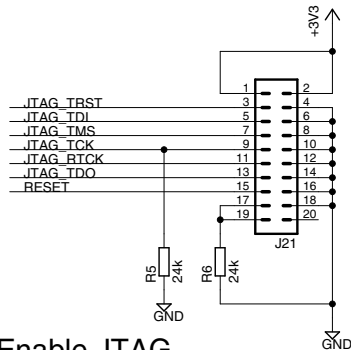


Connector for color QVGA LCD (CS2 = 0x8200 0000 - 0x82FF FFFF)

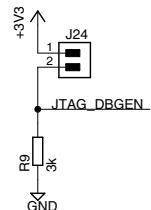


Touch screen interface

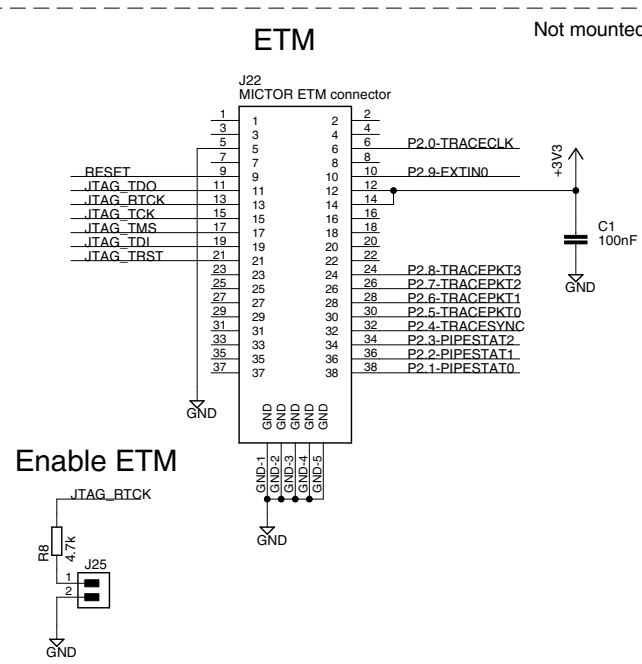
JTAG interface



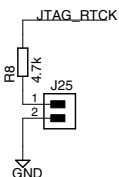
Enable JTAG



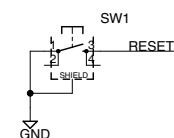
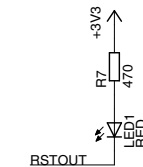
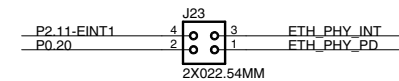
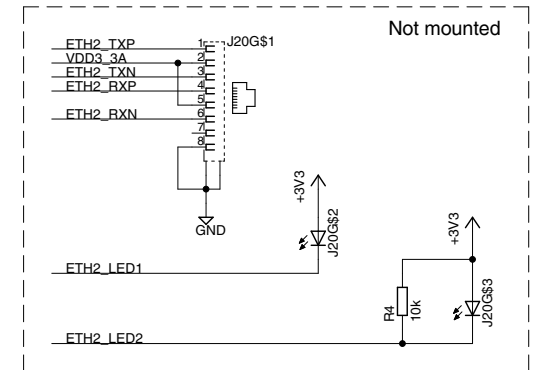
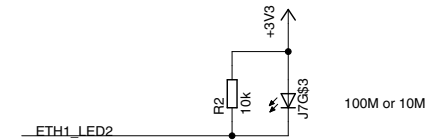
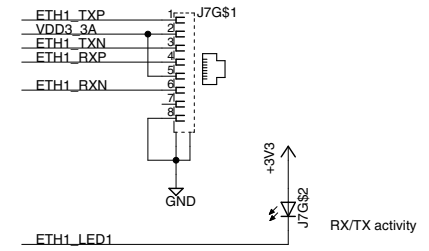
ETM



Enable ETM



RJ45 Ethernet connector



(C) Embedded Artists AB

TITLE: OEM Base Board Basic v1.5

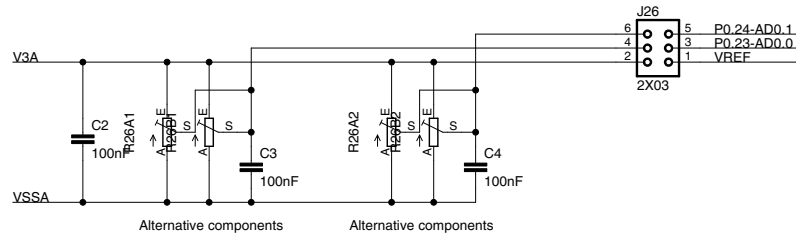
Document Number:

REV:

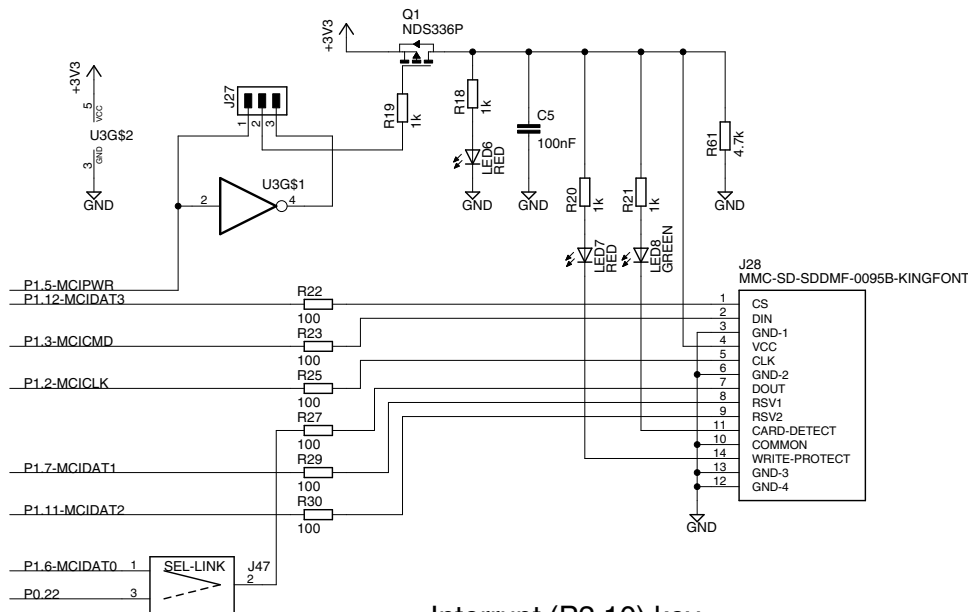
Date: 2009-05-30 23:27:59

Sheet: 3/6

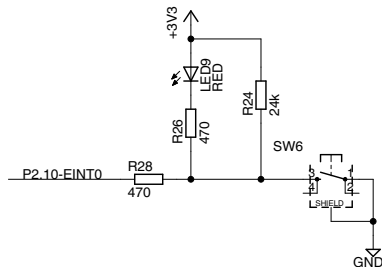
Analog inputs



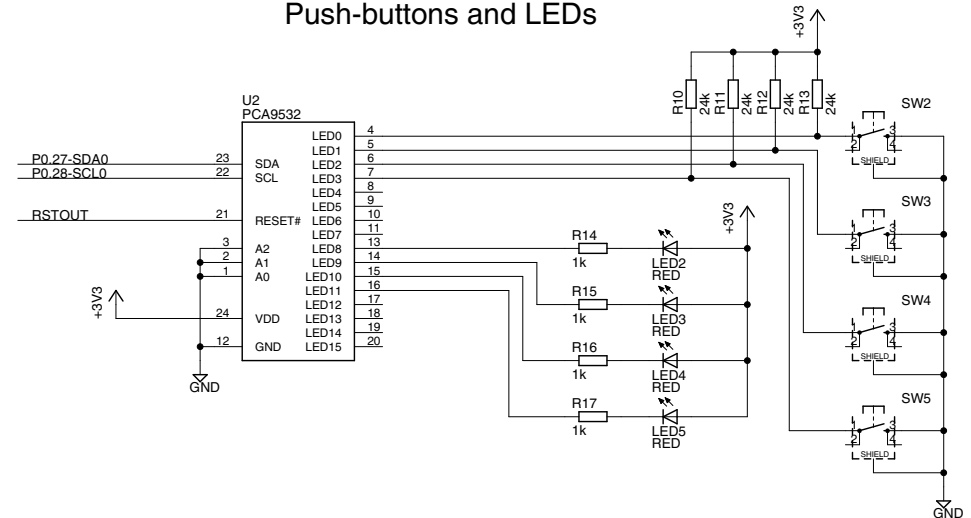
MMC/SD Memory Card I/F



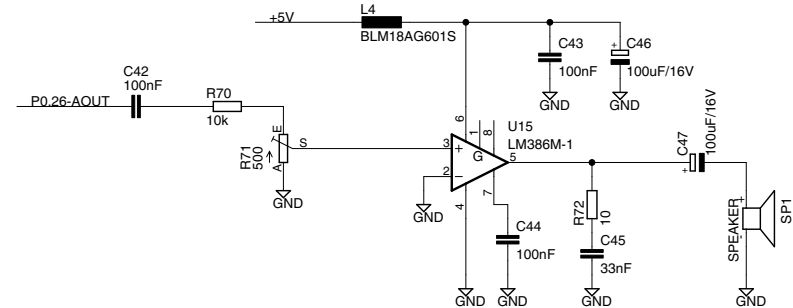
Interrupt (P2.10) key



Push-buttons and LEDs



Speaker amplifier



(C) Embedded Artists AB

TITLE: OEM Base Board Basic v1.5

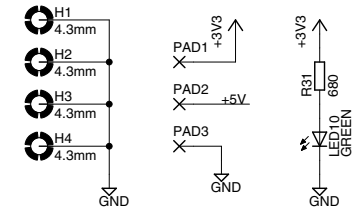
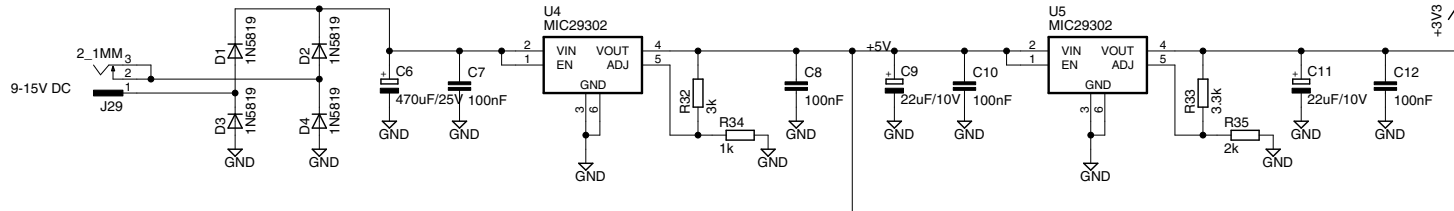
Document Number:

REV:

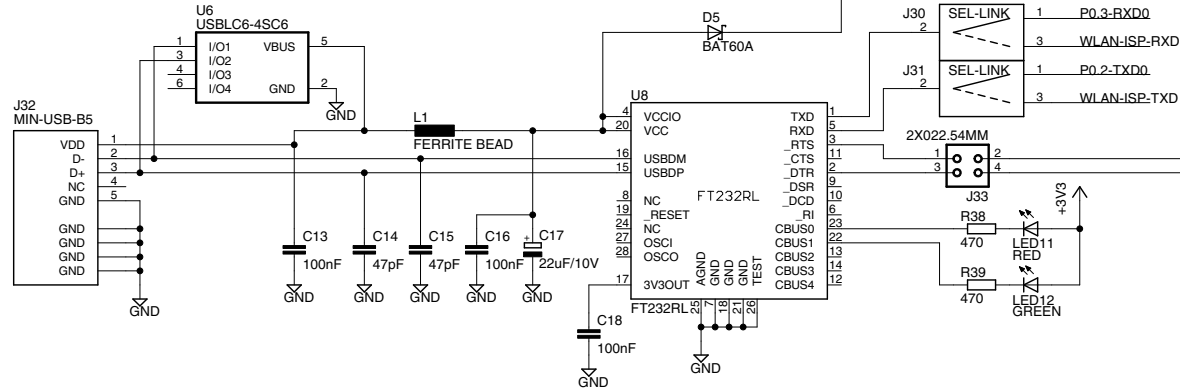
Date: 2009-05-30 23:27:59

Sheet: 4/6

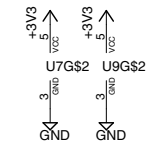
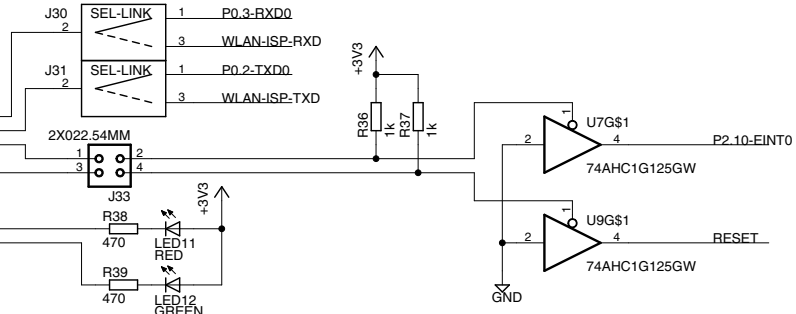
Power Supply



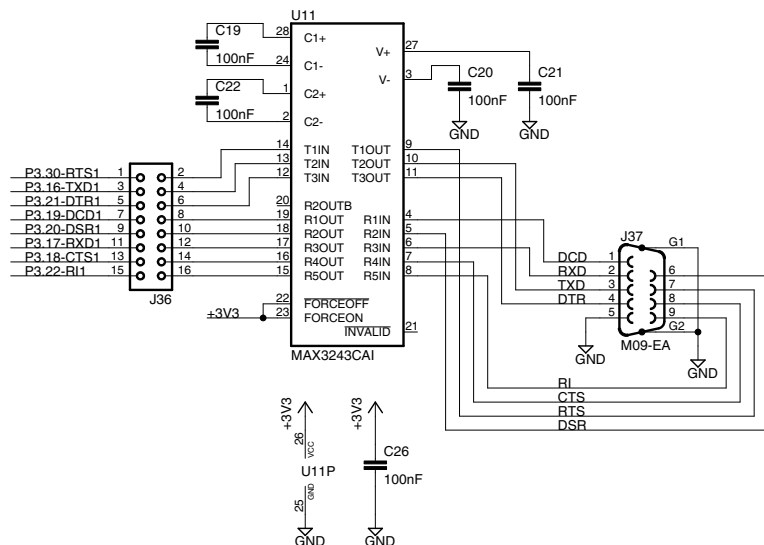
UART #0 over USB Serial Bridge



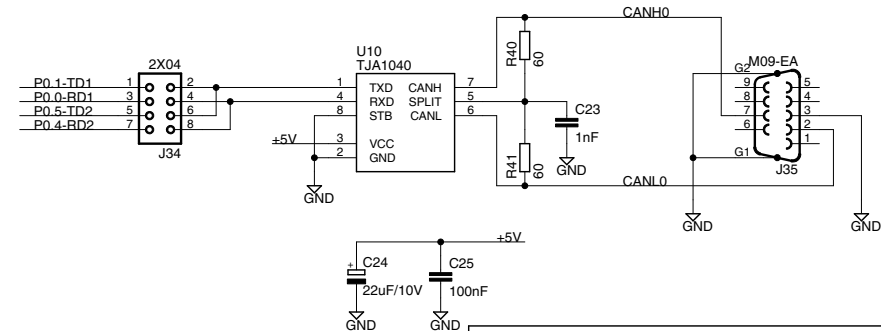
ISP functionality



UART #1 RS232 full modem



CAN transceiver



(C) Embedded Artists AB

TITLE: OEM Base Board Basic v1.5

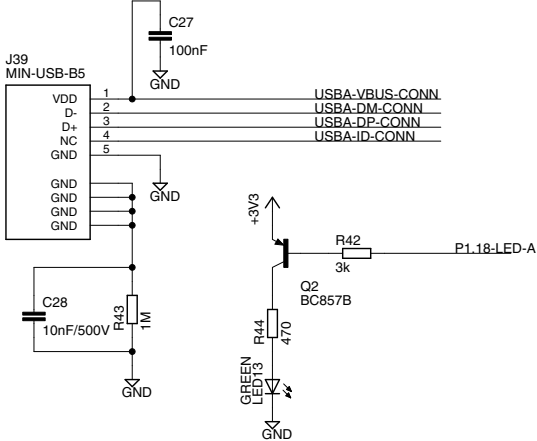
Document Number:

REV:

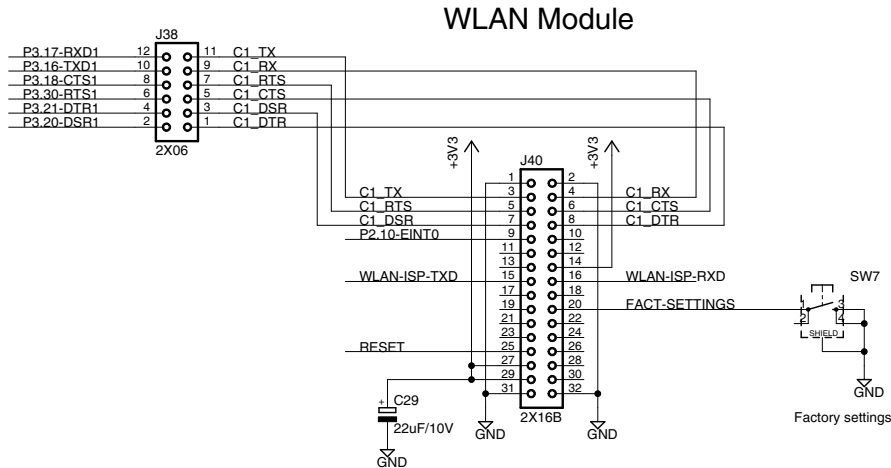
Date: 2009-05-30 23:27:59

Sheet: 5/6

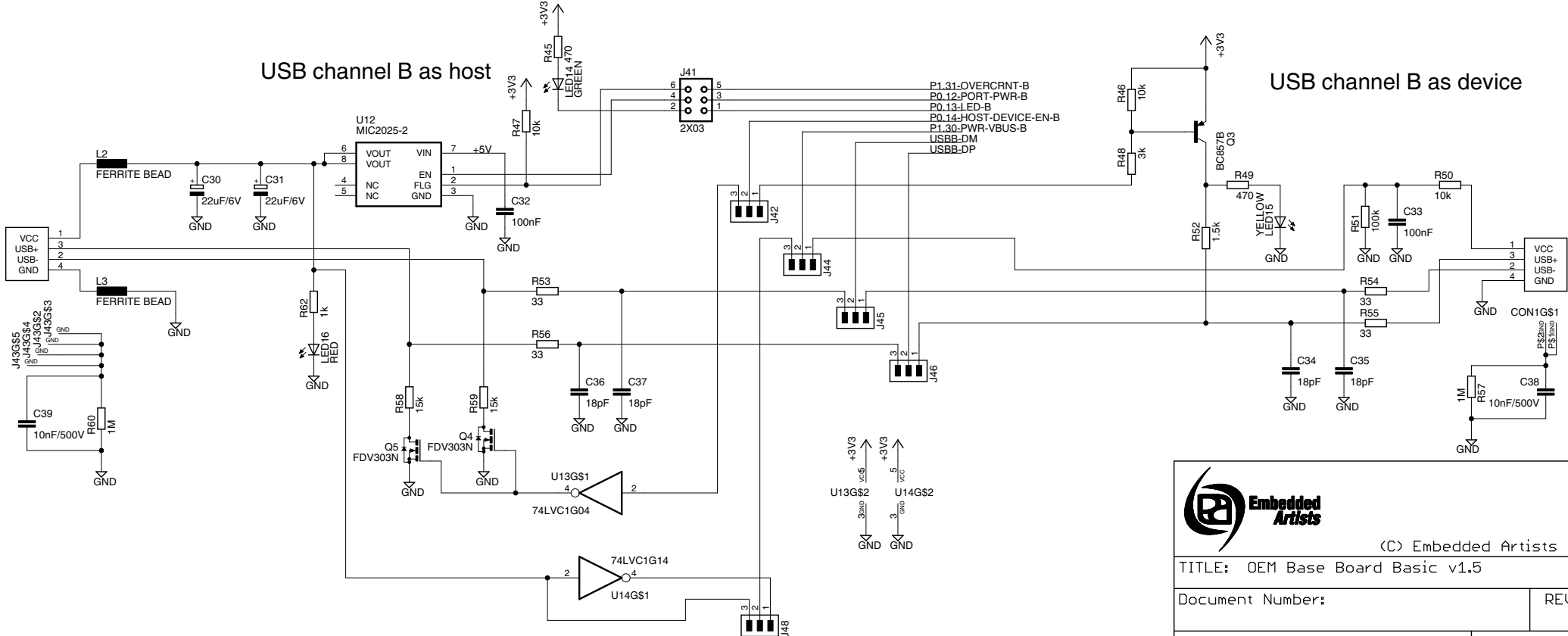
USB channel A (OTG)



Legacy interface, no longer supported



USB channel B as host



(C) Embedded Artists AB

TITLE: OEM Base Board Basic v1.5

Document Numbers:

REV:

Date: 2009-05-30 23:27:59

Sheet: 6/6