USB

J1 USB

VBUS
D-
D+
ID
GND

USB-5V
+3V3

T1
DTA114EET1G (2 X 10K)

PIO0_6-CONNECT

R1 1k5

R2 10K   PIO0_3-VBUS

U2 NUF2042XV6T1G
VBUSDMO
DMI
DPI
GND DPO

USB_DM
USB_DP

MCU

C3 18pF
C4 18pF
Q1 12Mhz

XTALIN
XTLOUT

USB_DM
USB_DP

+3V3
R5 10K

U3 LPC11U35FHI33/501

Pin	Signal	Net	TP
4	XTALIN		
5	XTLOUT		
13	USB_DM		
14	USB_DP		
2	RESET/PIO0_0	PIO0_0-RESET	TP20
3	CLKOUT/CT32B0_MAT2/USB_FTOGGLE/PIO0_1	PIO0_1-ISP_EN	TP17
8	SSEL0/CT16B0_CAP0/PIO0_2	PIO0_2	TP22
9	USB_VBUS/PIO0_3	PIO0_3-VBUS	TP25
10	SCL/PIO0_4	PIO0_4	TP23
11	SDA/PIO0_5	PIO0_5	TP26
15	USB_CONNECT/SCK0/PIO0_6	PIO0_6-CONNECT	TP2
16	CTS/PIO0_7	PIO0_7	TP3
17	MISO0/CT16B0_MAT0/PIO0_8	PIO0_8	TP4
18	MOSI0/CT16B0_MAT1/PIO0_9	PIO0_9-SWDIO	TP5
19	SWCLK/SCK0/CT16B0_MAT2/PIO0_10	PIO0_10-SWDCLK	TP24
21	TD/AD0/CT32B0_MAT3/PIO0_11	PIO0_11	TP7
22	TMS/AD1/CT32B1_CAP0/PIO0_12	PIO0_12	TP8
23	TDO/AD2/CT32B1_MAT0/PIO0_13	PIO0_13	TP9
24	TRST/AD3/CT32B1_MAT1/PIO0_14	PIO0_14	TP10
25	SWDIO/AD4/CT32B1_MAT2/PIO0_15	PIO0_15-SWDIO	TP11
26	AD5/CT32B1_MAT3/WAKEUP/PIO0_16	PIO0_16	TP12
30	RTS/CT32B0_CAP0/SCLK/PIO0_17	PIO0_17	TP15
31	RXD/CT32B0_MAT0/PIO0_18	PIO0_18	TP16
32	TXD/CT32B0_MAT1/PIO0_19	PIO0_19	TP18
7	CT16B1_CAP0/PIO0_20	PIO0_20-LED1	TP21
12	CT16B1_MAT0/MOSI1/PIO0_21	PIO0_21	TP1
20	AD6/CT16B1_MAT1/MISO1/PIO0_22	PIO0_22	TP6
27	AD7/PIO0_23	PIO0_23	TP13
28	DCD/CT16B0_MAT2/SCK1/PIO1_15	PIO1_15	TP14
1	DTR/SSEL1/PIO1_19	PIO1_19	TP19

+3V3   6   VDD
C5 0.1uF
+3V3   29   VDD
C6 0.1uF
G1*5   GND

+3V3 USB-5V
TP30
TP27
EXT-VIN
TP29
TP28

POWER SELECTOR

USB-5V
D3 BAS40-05
EXT-VIN

3.3V REGULATOR

U1 MCP1754ST-3302E/CB
VIN VOUT
GND
C1 1u
C2 1u
+3V3

SWD DEBUGGER PORT (OPTIONAL)

+3V3   +3V3
J2
R4 10K
1 2
3 4
5 6
7 8
9 10
SWD HEADER
R3 10K

PIO0_15-SWDIO
PIO0_10-SWDCLK
PIO0_9-SWDO
PIO0_0-RESET
RST

USER INTERFACE

+3V3   +3V3   PIO0_20-LED1   PIO0_0-RESET   PIO0_1-ISP_EN
R6 10K   R7 10K
PWR   LED1
D2 GRN   D1 RED
S2   ISP S1

OSH. Share alike and attributions are optional. Commercial use ok.

ARM PRO MINI
TITLE: arm-pro-mini
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