Arty PMOD Connectors

JD1
0015912120

CD_DAT3	1	7	DAT1
MOSI_CMD	2	8	DAT2
MISO_DAT0	3	9	CD
SCK	4	10	NC_EN
	5	11	
	6	12	

+3V3 +3V3
GND GND

JC1
0015912120

TDMS_D0_P	1	7	TDMS_D2_P
TDMS_D0_N	2	8	TDMS_D2_N
TDMS_D1_P	3	9	TDMS_CLK_P
TDMS_D1_N	4	10	TDMS_CLK_N
	5	11	
	6	12	

+3V3 +3V3
GND GND

JB1
0015912120

SS_USB	1	7	GPX_USB
MOSI_USB	2	8	RST_USB
MISO_USB	3	9	INT_USB
SCK_USB	4	10	
	5	11	
	6	12	

+3V3 +3V3
GND GND

HDMI connector

J4
685119134923

C_TDMS_D2_P, C_TDMS_D2_N, C_TDMS_D0_P, C_TDMS_D0_N, C_TDMS_D1_P, C_TDMS_D1_N, C_TDMS_CLK_P, C_TDMS_CLK_N

TP11, TP12, TP13, TP14, TP15

GND GND GND

IC1
TPD8S009DSMR
TPD8S009DSMR
Texas Instruments

MAX3421EEHJ

R13 R14 R19 R20 R17 R18 R15 R16 (0R)

VCC, NC, D3-, GND, D3+, D2-, GND, D2+, GND, D1-, GND, D1+, GND, D0-, GND, D0+

TDMS_CLK_P, TDMS_CLK_N, TDMS_D0_P, TDMS_D0_N, TDMS_D1_P, TDMS_D2_P, TDMS_D2_N

+3V3
GND

SD card slot

R1 R2 R3 R4 R5 R6 R7 (20k)

+3V3

J2
Amphenol
1140084168
microSD CARD

DAT2	1	DAT2
CD_DAT3	2	CD/DAT3
MOSI_CMD	3	CMD
	4	VDD
SCK	5	CLK
	6	VSS
MISO_DAT0	7	DAT0
DAT1	8	DAT1
CD	9	CD1
	10	CD2
	Shell

R12 220R

C1 100n

GND GND GND

USB controller

J5
UE27AC54100

Data-	1
Data+	2
	3
	4

+5V

D1 D2 PGB1010603MR

R9 22R
R10 22R

DNP R23 0R
R11 10k
+3V3

U2
MAX3421EEHJ
Maxim integrated

INT, VCC, VL, GPOUT0, GPOUT1, GPOUT2, GPOUT3, GPOUT4, GPOUT5, GPOUT6, GPOUT7, GPIN0, GPIN1, GPIN2, GPIN3, GPIN4, GPIN5, GPIN6, GPIN7

D-, D+, XI, XO, RES, SCLK, SS, MISO, MOSI, GPX, VBCOMP, GND, GND

INT_USB, RST_USB, SCK_USB, SS_USB, MISO_USB, MOSI_USB, GPX_USB

TP4, TP5, TP6, TP7, TP8, TP9, TP10

C18 100n

C19 100n C15 100n

+3V3 +5V

Y1
KX-7_12MHz

XI XO

C16 22p C17 22p

GND

DC-DC step-up

L1
XFL4020-102MEB

+3V3 +5V

U1
TPS61232DRCT

VIN	10	1	SW
HYS	8	2	SW
EN	9	3	VOUT
SS	6	4	VOUT
PG	5	7	FB
GND	11	

TP1, TP2, TP3

R8 0R

C10 22u C11 10n C12 22u C13 22u C14 22u

GND GND

Logo N1 antmicro_logo

Logo N2 oshw_logo

open source hardware

antmicro