REMOVE JUMPER
BEFORE CPLD
PROGRAMMING

JP1
Jumper_2_Bridged
PWR_FLAG
VCC
PWR_FLAG

PWR_FLAG
VCC1

C1 C2 C3 C4 C5 C6 C7 C8
0.1u 0.1u 0.1u 0.1u 0.1u 0.1u 0.1u 0.1u
GND

U1
EPM7064S-PLCC-84

3 43   13 26 38 53 66 78
VCCINT VCCINT   VCCIO VCCIO VCCIO VCCIO VCCIO VCCIO

J1
TCK-1   1
TDO-1   3
TMS-1   5
        7
TDI-1   9

2 4
6 8
10
VCC1
JTAG CONNECTOR
EPM7064S #1
GND

83 GCLK1   CLK
1 GCLRn   CPU-RESET
84 OE1   WS-IOWR
2 OE2/GCLK2   GND

14 TDI-I/O_8A   TDI-1
23 TMS-I/O_16B TMS-1
62 TCK-I/O_16C TCK-1
71 TDO-I/O_8D   TDO-1

22 I/O_1A   1WS
21 I/O_2A   IM2-S2
20 I/O_3A   IM2-INT
18 I/O_4A   2WS
17 I/O_5A   IM2-IEO
16 I/O_6A   3WS
15 I/O_7A   IM2-EN
12 I/O_9A   IM2-S0
11 I/O_10A 4WS
10 I/O_11A 7WS
9 I/O_12A 5WS
8 I/O_13A 8WS
6 I/O_14A 6WS
5 I/O_15A INT-I2C
4 I/O_16A IM2-S1

I/O_1C   44
I/O_2C   45 EIRQ2
I/O_3C   46 mA15
I/O_4C   48 CPU-A1
I/O_5C   49 CPU-RD
I/O_6C   50 IO-SEL
I/O_7C   51 EIRQ5
I/O_9C   52 EIRQ3
I/O_10C 54 INT-I2C
I/O_11C 55 EIRQ7
I/O_12C 56 mA14
I/O_13C 57 CPU-A14
I/O_14C 58 CPU-IORQ
I/O_15C 60 CPU-MREQ
I/O_16C 61 DMA-IEO2

41 I/O_1B   CS-I2C-WR
40 I/O_2B   CS-I2C
39 I/O_3B   SEL-A14
37 I/O_4B   SEL-A15
36 I/O_5B   RESET
35 I/O_6B   A-PRIME
34 I/O_7B   FP-LATCH-RD
33 I/O_8B   DATA-DIR
31 I/O_9B   READY
30 I/O_10B PAGE-EN
29 I/O_11B FP-LATCH-WR
28 I/O_12B PAGE-WR
27 I/O_13B CS-MAP
25 I/O_14B CPU-A2
24 I/O_15B FP-LATCH

I/O_1D   63
I/O_2D   64 CPU-A15
I/O_3D   65 WS-MEMWR
I/O_4D   67 A
I/O_5D   68 WS-MEMRD
I/O_6D   69 EIRQ1
I/O_7D   73 EIRQ4
I/O_9D   74 EIRQ0
I/O_10D 75 EIRQ6
I/O_11D 75 CPU-D0
I/O_12D 76 CPU-RFSH
I/O_13D 77 WS-IORD
I/O_14D 79 CPU-WR
I/O_15D 80 CPU-M1
I/O_16D 81 DMA-IE1

7 19 32 42 47 59 72 82
GND GND GND GND GND GND GND GND
GND

CPU GLUE LOGIC

REMOVE JUMPER
BEFORE CPLD
PROGRAMMING

JP2
Jumper_2_Bridged
PWR_FLAG
VCC
PWR_FLAG

PWR_FLAG
VCC2

C9 C10 C11 C12 C13 C14 C15 C16
0.1u 0.1u 0.1u 0.1u 0.1u 0.1u 0.1u 0.1u
GND

U2
EPM7064S-PLCC-84

3 43   13 26 38 53 66 78
VCCINT VCCINT   VCCIO VCCIO VCCIO VCCIO VCCIO VCCIO

J4
TCK-2   1
TDO-2   3
TMS-2   5
        7
TDI-2   9

2 4
6 8
10
VCC2
JTAG CONNECTOR
EPM7064S #2
GND

83 GCLK1   GND
1 GCLRn   CPU-RESET
84 OE1   CPU-BUSACK
2 OE2/GCLK2   GND

14 TDI-I/O_8A   TDI-2
23 TMS-I/O_16B TMS-2
62 TCK-I/O_16C TCK-2
71 TDO-I/O_8D   TDO-2

22 I/O_1A
21 I/O_2A
20 I/O_3A   CPU-A2
18 I/O_4A   Q5
17 I/O_5A   DREQ1
16 I/O_6A   Q3
15 I/O_7A   Q2
12 I/O_9A   BUS-EN
11 I/O_10A R7
10 I/O_11A BUSRQ
9 I/O_12A FP-LATCH
8 I/O_13A DMA-CS1
6 I/O_14A DATA-XFER
5 I/O_15A IO-SEL
4 I/O_16A DMA-CS2

I/O_1C   44 BUSACK
I/O_2C   45 CPU-D1
I/O_3C   46 CPU-D1
I/O_4C   48
I/O_5C   49 CPU-A4
I/O_6C   50 CPU-A7
I/O_7C   51 CPU-A6
I/O_9C   52 CPU-A5
I/O_10C 54
I/O_11C 55 R5
I/O_12C 56
I/O_13C 57
I/O_14C 58 R6
I/O_15C 60 CPU-M1
I/O_16C 61 CPU-IORQ

41 I/O_1B
40 I/O_2B
39 I/O_3B
37 I/O_4B   CPU-D0
36 I/O_5B   CS-MAP
35 I/O_6B   DMA-INT-PULSE2
34 I/O_7B   CPU-A1
33 I/O_8B   CS-UART
31 I/O_9B   DMA-RESET2
30 I/O_10B DMA-RDY1
29 I/O_11B DMA-RDY2
28 I/O_12B DMA-RESET1
27 I/O_13B CPU-A0
25 I/O_14B R4
24 I/O_15B CPU-A3

I/O_1D   63
I/O_2D   64
I/O_3D   65
I/O_4D   67 DMA-BAO2
I/O_5D   68 CPU-WR
I/O_6D   69 Q4
I/O_7D   70 DREQ0
I/O_9D   73
I/O_10D 74 CPU-WAIT
I/O_11D 75 CPU-D3
I/O_12D 76 CPU-D2
I/O_13D 77
I/O_14D 79 DMA-INT-PULSE1
I/O_15D 80 Q7
I/O_16D 81 Q6

7 19 32 42 47 59 72 82
GND GND GND GND GND GND GND GND
GND

DMA GLUE LOGIC

VCC2
R1 R2
10K 10K

DMA ADDRESS
Conn_02x06_Odd_Even
1 2
3 4 Q7
5 6 Q6
7 8 Q5
9 10 Q4
ZERO 11 12 Q3
J2 Q2

IO ADDRESS
Conn_02x04_Odd_Even
1 2
3 4 R7
5 6 R6
ZERO 7 8 R5
J3 R4

RN1
10K
VCC2