IC401
ADSP21160N

A1 DATA(14) D-	A2 DATA(13) D-	A3 DATA(10) D-	A4 DATA(8) D-	A5 DATA(4) D-	A6 DATA(2) D-	A7 TDI TDI	A8 TRST_n TRST_n	A9 RESET_n Rst_n	A10 RPBA GND	A11 IRQ0_n IRQ0_n	A12 FLAG1 ChB_Rst_n	A13 TIMEXP D-	A14 NC_A14 D-	A15 NC_A15 D-	A16 TFS1 TFS1	A17 RFS1 RFS1	A18 RCLK0 D-	A19 DT0 D-	A20 L0DAT(4) L0DAT(4)
B1 DATA(22) D-	B2 DATA(16) D-	B3 DATA(15) D-	B4 DATA(9) D-	B5 DATA(6) D-	B6 DATA(3) D-	B7 DATA(0) D-	B8 TCK TCK	B9 EMU_n Sharc_EMU_n	B10 IRQ2_n IRQ2_n	B11 FLAG3 ChB_Empty	B12 FLAG0 ChA_Rst_n	B13 NC_B13 D-	B14 NC_B14 D-	B15 DT1 D-	B16 RCLK1 D-	B17 RFS0 RFS0	B18 TCLK0 D-	B19 L0DAT(5) L0DAT(5)	B20 L0DAT(2) L0DAT(2)
C1 DATA(24) D-	C2 DATA(18) D-	C3 DATA(17) D-	C4 DATA(11) D-	C5 DATA(7) D-	C6 DATA(5) D-	C7 DATA(1) D-	C8 TMS TMS	C9 TDO TDO	C10 IRQ1_n IRQ1_n	C11 FLAG2 ChA_Empty	C12 NC_C12 D-	C13 NC_C13 D-	C14 TCLK1 D-	C15 DR1 D-	C16 DR0 D-	C17 L0DAT(7) L0DATi(7)	C18 L0DAT(6) L0DATi(6)	C19 L0ACK L0ACKi	C20 L0DAT(0) L0DATi(0)
D1 DATA(28) D-	D2 DATA(25) D-	D3 DATA(20) D-	D4 DATA(19) D-	D5 DATA(12) D-	D6 VDDEXT_D6 VDDEXT	D7 VDDINT_D7 VDDINT	D8 VDDEXT_D8 VDDEXT	D9 VDDEXT_D9 VDDEXT	D10 VDDEXT_D10 VDDEXT	D11 VDDEXT_D11 VDDEXT	D12 VDDEXT_D12 VDDEXT	D13 VDDINT_D13 VDDINT	D14 VDDEXT_D14 VDDEXT	D15 TFS0 TFS0	D16 L1DAT(7) L1DATi(7)	D17 L0CLK L0CLKi	D18 L0DAT(3) L0DATi(3)	D19 L0DAT(1) L0DATi(1)	D20 L1CLK L1CLKi
E1 DATA(30) D-	E2 DATA(29) D-	E3 DATA(23) D-	E4 DATA(21) D-	E5 VDDEXT_E5 VDDEXT	E6 VDDINT_E6 VDDINT	E7 VDDINT_E7 VDDINT	E8 VDDINT_E8 VDDINT	E9 VDDINT_E9 VDDINT	E10 VDDINT_E10 VDDINT	E11 GND_E11 GND	E12 VDDINT_E12 VDDINT	E13 VDDINT_E13 VDDINT	E14 VDDINT_E14 VDDINT	E15 VDDINT_E15 VDDINT	E16 VDDEXT_E16 VDDEXT	E17 L1DAT(6) L1DATi(6)	E18 L1DAT(5) L1DATi(5)	E19 L1ACK L1ACKi	E20 L1DAT(1) L1DATi(1)
F1 DATA(34) Data(2)	F2 DATA(33) Data(1)	F3 DATA(27) D-	F4 DATA(26) D-	F5 VDDEXT_F5 VDDEXT	F6 VDDINT_F6 VDDINT	F7 GND_F7 GND	F8 GND_F8 GND	F9 GND_F9 GND	F10 GND_F10 GND	F11 GND_F11 GND	F12 GND_F12 GND	F13 GND_F13 GND	F14 GND_F14 GND	F15 VDDINT_F15 VDDINT	F16 VDDEXT_F16 VDDEXT	F17 L1DAT(4) L1DATi(4)	F18 L1DAT(3) L1DATi(3)	F19 L1DAT(0) L1DATi(0)	F20 L2DAT(7) L2DATi(7)
G1 DATA(38) Data(6)	G2 DATA(35) Data(3)	G3 DATA(32) Data(0)	G4 DATA(31) D-	G5 VDDEXT_G5 VDDEXT	G6 VDDINT_G6 VDDINT	G7 GND_G7 GND	G8 GND_G8 GND	G9 GND_G9 GND	G10 GND_G10 GND	G11 GND_G11 GND	G12 GND_G12 GND	G13 GND_G13 GND	G14 GND_G14 GND	G15 VDDINT_G15 VDDINT	G16 VDDEXT_G16 VDDEXT	G17 L1DAT(2) L1DATi(2)	G18 L2DAT(6) L2DATi(6)	G19 L2DAT(4) L2DATi(4)	G20 L2CLK L2CLKi
H1 DATA(40) Data(8)	H2 DATA(39) Data(7)	H3 DATA(37) Data(5)	H4 DATA(36) Data(4)	H5 VDDEXT_H5 VDDEXT	H6 VDDINT_H6 VDDINT	H7 GND_H7 GND	H8 GND_H8 GND	H9 GND_H9 GND	H10 GND_H10 GND	H11 GND_H11 GND	H12 GND_H12 GND	H13 GND_H13 GND	H14 GND_H14 GND	H15 VDDINT_H15 VDDINT	H16 VDDEXT_H16 VDDEXT	H17 L2DAT(5) L2DATi(5)	H18 L2ACK L2ACKi	H19 L2DAT(3) L2DATi(3)	H20 L2DAT(1) L2DATi(1)
J1 DATA(44) Data(12)	J2 DATA(43) Data(11)	J3 DATA(42) Data(10)	J4 DATA(41) Data(9)	J5 VDDEXT_J5 VDDEXT	J6 VDDINT_J6 VDDINT	J7 GND_J7 GND	J8 GND_J8 GND	J9 GND_J9 GND	J10 GND_J10 GND	J11 GND_J11 GND	J12 GND_J12 GND	J13 GND_J13 GND	J14 GND_J14 GND	J15 VDDINT_J15 VDDINT	J16 VDDEXT_J16 VDDEXT	J17 L2DAT(2) L2DATi(2)	J18 L2DAT(0) L2DATi(0)	J19 HBG_n HBG_n	J20 HBR_n VDDEXT
K1 CLK_CFG_0 GND	K2 DATA(46) Data(14)	K3 DATA(45) Data(13)	K4 DATA(47) Data(15)	K5 VDDEXT_K5 VDDEXT	K6 VDDINT_K6 VDDINT	K7 GND_K7 GND	K8 GND_K8 GND	K9 GND_K9 GND	K10 GND_K10 GND	K11 GND_K11 GND	K12 GND_K12 GND	K13 GND_K13 GND	K14 GND_K14 GND	K15 VDDINT_K15 VDDINT	K16 VDDEXT_K16 VDDEXT	K17 BR6_n BReq_n	K18 BR5_n BReq_n	K19 BR4_n BReq_n	K20 BR3_n BReq_n
L1 CLKIN Sharc_Clk	L2 CLK_CFG_1 VDDEXT	L3 AGND GND	L4 CLK_CFG_2 GND	L5 VDDEXT_L5 VDDEXT	L6 VDDINT_L6 VDDINT	L7 GND_L7 GND	L8 GND_L8 GND	L9 GND_L9 GND	L10 GND_L10 GND	L11 GND_L11 GND	L12 GND_L12 GND	L13 GND_L13 GND	L14 GND_L14 GND	L15 VDDINT_L15 VDDINT	L16 VDDEXT_L16 VDDEXT	L17 BR2_n BReq_n	L18 BR1_n BReq_n	L19 ACK D-	L20 REDY D-
M1 AVDD AVDD	M2 CLK_CFG_3 GND	M3 CLKOUT D-	M4 NC_M4 D-	M5 VDDEXT_M5 VDDEXT	M6 VDDINT_M6 VDDINT	M7 GND_M7 GND	M8 GND_M8 GND	M9 GND_M9 GND	M10 GND_M10 GND	M11 GND_M11 GND	M12 GND_M12 GND	M13 GND_M13 GND	M14 GND_M14 GND	M15 VDDINT_M15 VDDINT	M16 VDDEXT_M16 VDDEXT	M17 PAGE D-	M18 SBTS_n VDDEXT	M19 PA_n D-	M20 L3DAT(7) L3DATi(7)
N1 NC_N1 D-	N2 NC_N2 D-	N3 DATA(48) Data(16)	N4 DATA(51) Data(19)	N5 VDDEXT_N5 VDDEXT	N6 VDDINT_N6 VDDINT	N7 GND_N7 GND	N8 GND_N8 GND	N9 GND_N9 GND	N10 GND_N10 GND	N11 GND_N11 GND	N12 GND_N12 GND	N13 GND_N13 GND	N14 GND_N14 GND	N15 VDDINT_N15 GND	N16 VDDEXT_N16 VDDEXT	N17 L3DAT(5) L3DATi(5)	N18 L3DAT(6) L3DATi(6)	N19 L3DAT(4) L3DATi(4)	N20 L3CLK L3CLKi
P1 DATA(49) Data(17)	P2 DATA(50) Data(18)	P3 DATA(52) Data(20)	P4 DATA(55) Data(23)	P5 VDDEXT_P5 VDDEXT	P6 VDDINT_P6 VDDINT	P7 GND_P7 GND	P8 GND_P8 GND	P9 GND_P9 GND	P10 GND_P10 GND	P11 GND_P11 GND	P12 GND_P12 GND	P13 GND_P13 GND	P14 GND_P14 GND	P15 VDDINT_P15 VDDINT	P16 VDDEXT_P16 VDDEXT	P17 L3DAT(2) L3DATi(2)	P18 L3DAT(1) L3DATi(1)	P19 L3DAT(3) L3DATi(3)	P20 L3ACK L3ACKi
R1 DATA(53) Data(21)	R2 DATA(54) Data(22)	R3 DATA(57) Data(25)	R4 DATA(60) Data(28)	R5 VDDEXT_R5 VDDEXT	R6 VDDINT_R6 VDDINT	R7 GND_R7 GND	R8 GND_R8 GND	R9 GND_R9 GND	R10 GND_R10 GND	R11 GND_R11 GND	R12 GND_R12 GND	R13 GND_R13 GND	R14 GND_R14 GND	R15 GND_R15 GND	R16 VDDEXT_R16 VDDEXT	R17 L4DAT(5) L4DATi(5)	R18 L4DAT(6) L4DATi(6)	R19 L4DAT(7) L4DATi(7)	R20 L3DAT(0) L3DATi(0)
T1 DATA(56) Data(24)	T2 DATA(58) Data(26)	T3 DATA(59) Data(27)	T4 DATA(63) Data(31)	T5 VDDEXT_T5 VDDEXT	T6 VDDINT_T6 VDDINT	T7 VDDINT_T7 VDDINT	T8 VDDINT_T8 VDDINT	T9 VDDINT_T9 VDDINT	T10 VDDINT_T10 VDDINT	T11 VDDINT_T11 VDDINT	T12 VDDINT_T12 VDDINT	T13 VDDINT_T13 VDDINT	T14 VDDINT_T14 VDDINT	T15 VDDINT_T15 VDDINT	T16 VDDEXT_T16 VDDEXT	T17 L4DAT(3) L4DATi(3)	T18 L4ACK L4ACKi	T19 L4CLK L4CLKi	T20 L4DAT(4) L4DATi(4)
U1 DATA(61) Data(29)	U2 DATA(62) Data(30)	U3 ADDR(3) Adr(3)	U4 ADDR(2) Adr(2)	U5 VDDEXT_U5 VDDEXT	U6 VDDEXT_U6 VDDEXT	U7 VDDEXT_U7 VDDEXT	U8 VDDEXT_U8 VDDEXT	U9 VDDEXT_U9 VDDEXT	U10 VDDEXT_U10 VDDEXT	U11 VDDEXT_U11 VDDEXT	U12 VDDEXT_U12 VDDEXT	U13 VDDEXT_U13 VDDEXT	U14 VDDEXT_U14 VDDEXT	U15 VDDEXT_U15 VDDEXT	U16 VDDEXT_U16 VDDEXT	U17 L5DAT(7) L5DATi(7)	U18 L4DAT(0) L4DATi(0)	U19 L4DAT(1) L4DATi(1)	U20 L4DAT(2) L4DATi(2)
V1 ADDR(4) Adr(4)	V2 ADDR(6) Adr(6)	V3 ADDR(7) Adr(7)	V4 ADDR(10) Adr(10)	V5 ADDR(14) Adr(14)	V6 ADDR(18) Adr(18)	V7 ADDR(22) D-	V8 ADDR(25) D-	V9 ADDR(28) D-	V10 ID0 GND	V11 ADDR(1) Adr(1)	V12 MS1_n MS1_n	V13 CS_n VDDEXT	V14 RDL_n D-	V15 DMAR2_n ChB_DMAR_n	V16 L5DAT(0) L5DATi(0)	V17 L5DAT(2) L5DATi(2)	V18 L5ACK L5ACKi	V19 L5DAT(4) L5DATi(4)	V20 L5DAT(6) L5DATi(6)
W1 ADDR(5) Adr(5)	W2 ADDR(9) Adr(9)	W3 ADDR(12) Adr(12)	W4 ADDR(15) Adr(15)	W5 ADDR(17) Adr(17)	W6 ADDR(20) Adr(20)	W7 ADDR(23) D-	W8 ADDR(26) D-	W9 ADDR(29) D-	W10 ID1 GND	W11 ADDR(0) Adr(0)	W12 BMS_n BMS_n	W13 MS2_n MS2_n	W14 CIF_n D-	W15 RDH_n SharcRd_n	W16 DMAG2_n D-	W17 LBOOT VDDEXT	W18 L5DAT(1) L5DATi(1)	W19 L5DAT(3) L5DATi(3)	W20 L5DAT(5) L5DATi(5)
Y1 ADDR(8) Adr(8)	Y2 ADDR(11) Adr(11)	Y3 ADDR(13) Adr(13)	Y4 ADDR(16) Adr(16)	Y5 ADDR(19) Adr(19)	Y6 ADDR(21) Adr(21)	Y7 ADDR(24) D-	Y8 ADDR(27) D-	Y9 ADDR(30) D-	Y10 ADDR(31) D-	Y11 ID2 GND	Y12 BRST BRST	Y13 MS0_n MS0_n	Y14 MS3_n MS3_n	Y15 WRH_n SharcWr_n	Y16 WRL_n D-	Y17 DMAG1_n D-	Y18 DMAR1_n ChA_DMAR_n	Y19 EBOOT GND	Y20 L5CLK L5CLKi

Clock Configuration:
CLK_CFG(3:0) = "0010"
=> Core / CLKIN Ration 2:1

ID = "000"

Booting Mode:
EBOOT = '0', LBOOT = '1', BMS_n = '1' (Input)
=> Link Port Booting

SHARC Power pins:
VDDINT (1V9) 40 pins
VDDEXT (3V3) 43 pins
GND 82 pins
NC 9 pins

MROD-In		Rev 38
SHARC		Date 26 Jan 2005
Proj: MROD-X	Proj.No:38405	Time 12:08:07 pm
Peter Jansweijer	peterj@nikhef.nl	Name peterj
NIKHEF ©ET-Nikhef Amsterdam	NATIONAAL INSTITUUT VOOR KERNFYSICA EN HOGE ENERGIE-FYSICA KRUISLAAN 409, 020-592 2000 1098 SJ AMSTERDAM NEDERLAND	Size A3 4 1 4 A
		Dim 420 x 297 mm
		Page 2 of 4