IC201
ADSP21160N

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
A																		
B																		
C																		
D																		
E																		
F																		
G																		
H																		
I																		
J																		
K																		
L																		

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
A	A1 DATA(14)	A2 DATA(13)	A3 DATA(10)	A4 DATA(8)	A5 DATA(4)	A6 DATA(2)	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	A14 NC_A14	A15 NC_A15	A16 TFS1 TFS1	A17 RFS1 RFS1	A18 RCLK0	A19 DT0	A20 L0DAT(4) L0DATi(4)
B	B1 DATA(22)	B2 DATA(16)	B3 DATA(15)	B4 DATA(9)	B5 DATA(6)	B6 DATA(3)	B7 DATA(0)	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	B14 NC_B14	B15 DT1	B16 RCLK1	B17 RFS0 RFS0	B18 TCLK0	B19 L0DAT(5) L0DATi(5)	B20 L0DAT(2) L0DATi(2)
C	C1 DATA(24)	C2 DATA(18)	C3 DATA(17)	C4 DATA(11)	C5 DATA(7)	C6 DATA(5)	C7 DATA(1)	C8 TMS TMS	C9 TDO TDO	C10 IRQ1_n IRQ1_n	C11 FLAG2 ChA_Empty	C12 NC_C12	C13 NC_C13	C14 TCLK1	C15 DR1	C16 DR0	C17 L0DAT(7) L0DATi(7)	C18 L0DAT(6) L0DATi(6)	C19 L0ACK L0ACKi	C20 L0DAT(0) L0DATi(0)
D	D1 DATA(28)	D2 DATA(25)	D3 DATA(20)	D4 DATA(19)	D5 DATA(12)	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
E	E1 DATA(30)	E2 DATA(29)	E3 DATA(23)	E4 DATA(21)	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)
F	F1 DATA(34) Data(2)	F2 DATA(33) Data(1)	F3 DATA(27)	F4 DATA(26)	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)
G	G1 DATA(38) Data(6)	G2 DATA(35) Data(3)	G3 DATA(32) Data(0)	G4 DATA(31)	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
H	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)
J	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
K	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
L	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	L20 REDY
M	M1 AVDD AVDD	M2 CLK_CFG_3 GND	M3 CLKOUT	M4 NC_M4	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	M18 SBTS_n VDDEXT	M19 PA_n	M20 L3DAT(7) L3DATi(7)
N	N1 NC_N1	N2 NC_N2	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 VDDINT	N16 VDDEXT_N16 VDDEXT	N17 L3DAT(5) L3DATi(5)	N18 L3DAT(6) L3DATi(6)	N19 L3DAT(4) L3DATi(4)	N20 L3CLK L3CLKi
P	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
R	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)
T	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)
U	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)
V	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)	V8 ADDR(25)	V9 ADDR(28)	V10 ID0 GND	V11 ADDR(1) Adr(1)	V12 MS1_n MS1_n	V13 CS_n VDDEXT	V14 RDL_n	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)
W	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)	W8 ADDR(26)	W9 ADDR(29)	W10 ID1 GND	W11 ADDR(0) Adr(0)	W12 BMS_n BMS_n	W13 MS2_n MS2_n	W14 CIF_n	W15 RDH_n SharcRd_n	W16 DMAG2_n	W17 LBOOT VDDEXT	W18 L5DAT(1) L5DATi(1)	W19 L5DAT(3) L5DATi(3)	W20 L5DAT(5) L5DATi(5)
Y	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)	Y8 ADDR(27)	Y9 ADDR(30)	Y10 ADDR(31)	Y11 ID2 GND	Y12 BRST BRST	Y13 MS0_n MS0_n	Y14 MS3_n MS3_n	Y15 WRH_n SharcWr_n	Y16 WRL_n	Y17 DMAG1_n ChA_DMAR_n	Y18 DMAR1_n GND	Y19 EBOOT	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

SHARC	
Proj: MROD-X	Proj.No: 38405
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NIKHEF
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Rev	V2 2
Date	7 Feb 2006
Time	1:46:33 pm
Name	tonvr
Size	A3 4 1 4 A
Dim	420 x 297 mm
Page	2 of 4