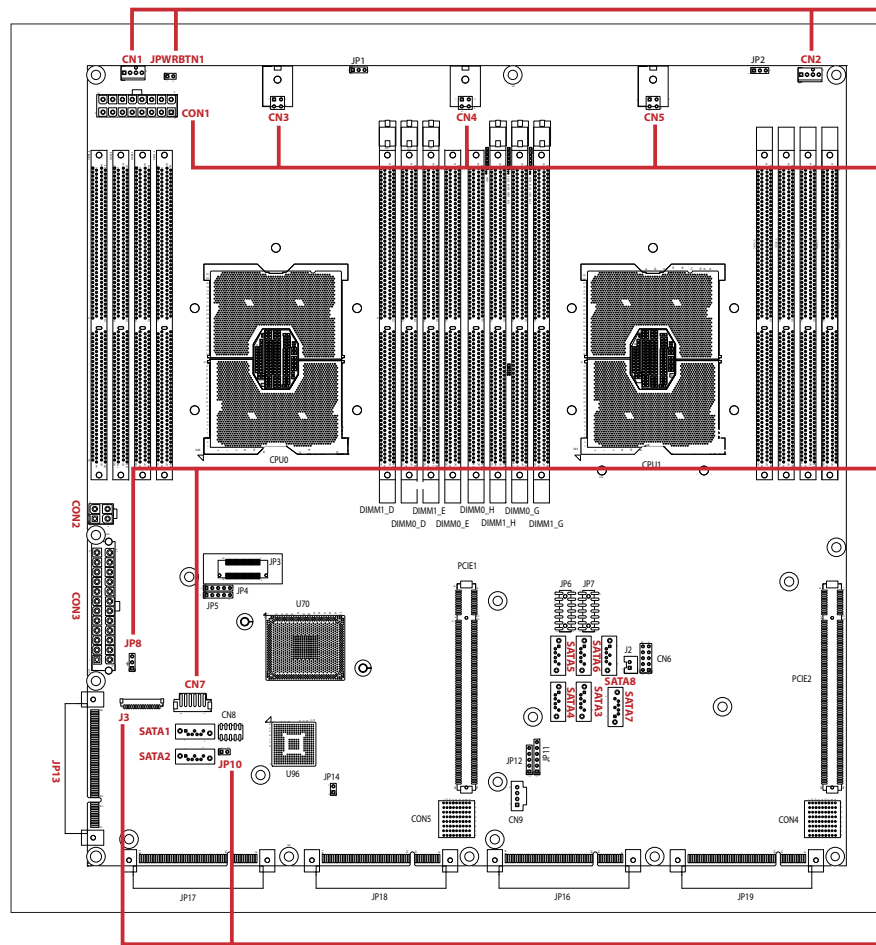


NSA 7145 Quick Reference Guide



CN1, CN2: CPU FAN Wafer Conn

		Pin	Description	Pin	Description
01	GND	03	TACH		
02	P12V	04	PWM		

CON1: Internal Power Conn

		Pin	Signal	Pin	Signal
01	P12V	09	GND		
02	P12V	10	GND		
03	P12V	11	GND		
04	P12V	12	GND		
05	P12V	13	GND		
06	P12V	14	GND		
07	P12V	15	GND		
08	P12V	16	GND		

JP8: Connector location

		Pin	Description
01	NC		
02	RST_RTCRST_N		
03	GND		

J3: VGA Conn

		Pin	Signal	Pin	Signal
01	DACROA_B	09	VGA_VCC		
02	DACGOA_B	10	Chassis_GND		
03	DACBOA_B	11	NC		
04	NC	12	DDC_DATA0_B		
05	Chassis_GND	13	AHSYNCO_B		
06	Chassis_GND	14	AVSYNCO_B		
07	Chassis_GND	15	DDC_CLKO_B		
08	Chassis_GND	16	NC		

JPWRBTN1: Power Button Header

		Pin	Description	Pin	Description
01	PWRBTN	02	GND		

CN3, CN4, CN5: System FAN Wafer Conn

		Pin	Description	Pin	Description
01	GND	03	PWM		
02	TACH	04	P12V		

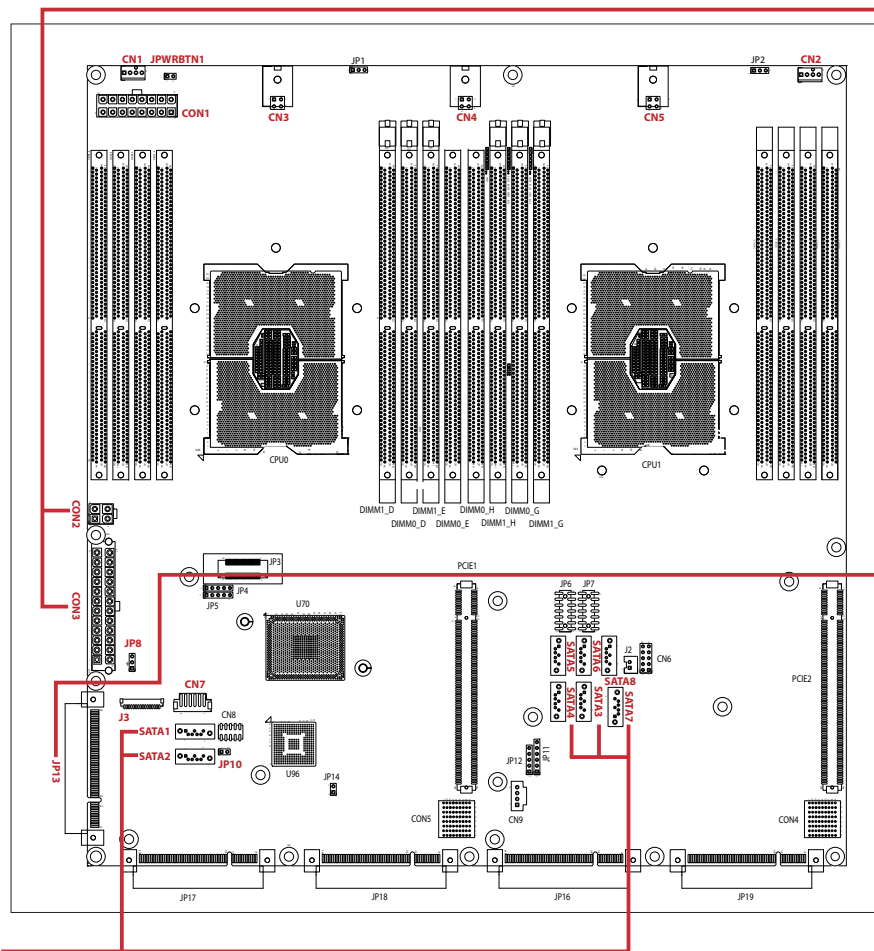
CN7: USB2.0 Conn

		Pin	Signal	Pin	Signal
01	P5V	04	USB2N4		
02	USB2N3	05	USB2P4		
03	USB2P3	06	GND		

JP10: Console

		Pin	Description	Pin	Description
01	BMC_COM_SW	02	GND		

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CON2: Internal Power Conn

	Pin	Signal	Pin	Signal
	01	GND	03	P12V
	02	GND	04	P12V

CON3: Internal Power Conn

	Pin	Signal	Pin	Signal
	01	+3.3V	13	+3.3V
	02	+3.3V	14	-12V
	03	GND	15	GND
	04	+5V	16	PS-ON
	05	GND	17	GND
	06	+5V	18	GND
	07	GND	19	GND
	08	PW-OK	20	RES/-5V
	09	+5VSB	21	+5V
	10	+12V	22	+5V
	11	+12V	23	+5V
	12	+3.3V	24	GND

JP13: Front I/O CONN

	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
	A1	GND	A26	GND	B1	GND	B26	PHYB_MXP1_1
	A2	COM1_TXD	A27	GND	B2	PHYA_MXP0	B27	PHYB_MXN1_1
	A3	COM1_RXD	A28	USB3_P01_ESD_RXN	B3	PHYA_MXN0	B28	GND
	A4	NC	A29	USB3_P01_ESD_RXP	B4	GND	B29	PHYB_MXP2_1
	A5	IBMC_LCM_LED_KR	A30	GND	B5	PHYA_MXP1	B30	PHYB_MXN2_1
	A6	IBMC_LCM_LED_KG	A31	USB3_P01_ESD_TXN	B6	PHYA_MXN1	B31	GND
	A7	IBMC_LCM_TXD	A32	USB3_P01_ESD_TXP	B7	GND	B32	PHYB_MXP3_1
	A8	IBMC_LCM_RXD	A33	GND	B8	PHYA_MXP2	B33	PHYB_MXN3_1
	A9	P5V	A34	USB2_P01_ESD_DN	B9	PHYA_MXN2	B34	GND
	A10	GND	A35	USB2_P01_ESD_DP	B10	GND	B35	LANB_LED_LINK100_N_1
	A11	P5V	A36	GND	B11	GND	B36	LANB_LED_LINK1G_N_1
	A12	P5V	A37	P5V_USB_P01	B12	PHY_MXP3	B37	LANB_LED_ACT_N_1
	A13	GND	A38	P5V_USB_P01	B13	PHY_MXN3	B38	GND
	A14	GND	A39	GND	B14	GND	B39	LED_PWR+
	A15	CONSOLE_VBUS	A40	USB3_P02_ESD_RXN	B15	LANA_LED_LINK100_N	B40	LED_ERR+
	A16	SP_TXD1_R	A41	USB3_P02_ESD_RXP	B16	LANA_LED_LINK1G_N	B41	LED_STBY+
	A17	SP_RXD1_R	A42	GND	B17	LANA_LED_ACT_N	B42	LED_HDD+
	A18	GND	A43	USB3_P02_ESD_TXN	B18	GND	B43	GND
	A19	NC	A44	USB3_P02_ESD_TXP	B19	GND	B44	LED_PWR-
	A20	NC	A45	GND	B20	P3V3_AUX	B45	LED_ERR-
	A21	GND	A46	USB2_P02_ESD_DN	B21	P3V3_AUX	B46	LED_STBY-
	A22	STATUS1_LED_P	A47	USB2_P02_ESD_DP	B22	GND	B47	LED_HDD-
	A23	STATUS2_LED_P	A48	GND	B23	PHYB_MXP0_1	B48	GND
	A24	LED_STATUS1_C	A49	GND	B24	PHYB_MXN0_1	B49	FP_RST_BTN_N
	A25	LED_STATUS2_C			B25	GND		GND

SATA1, SATA2, SATA3, SATA4, SATA5, SATA6, SATA7, SATA8: SATA CONN

	Pin	Signal
	01	GND
	02	SATA6G_P5_TX_DP
	03	SATA6G_P5_TX_DN
	04	GND
	05	SATA6G_P5_RX_DN
	06	SATA6G_P5_RX_DP
	07	GND