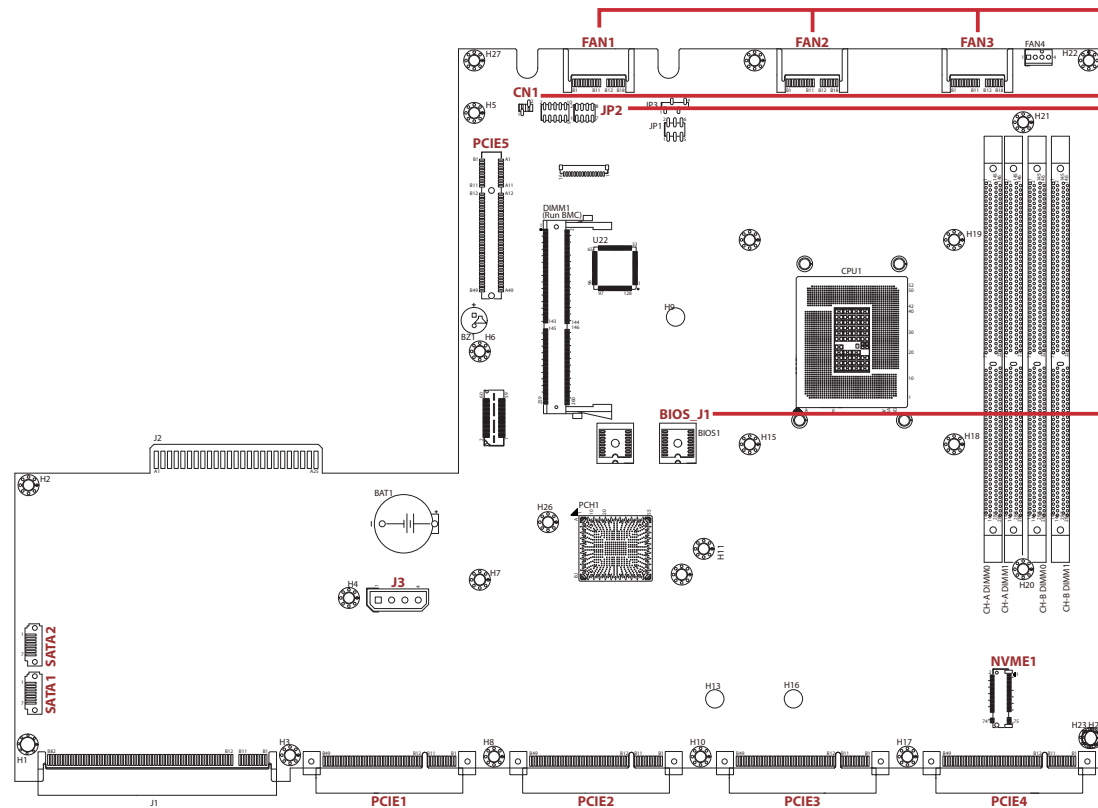


# NSA 5190 Quick Reference Guide



## FAN1, FAN2, FAN3: FAN Slot

Pin	Signal	Pin	Signal
A1	FAN present	B1	12V
A2	12V	B2	12V
A3	12V	B3	5V
A4	GND	B4	GND
A5	NC	B5	SMBCLK
A6	NC	B6	SMBDAT
A7	NC	B7	GND
A8	NC	B8	3.3V
A9	3.3V	B9	NC
A10	3.3V	B10	3.3V
A11	NC	B11	NC
A12	GND	B12	5V
A13	NC	B13	GND
A14	NC	B14	FAN PWM
A15	GND	B15	FAN TACH
A16	NC	B16	GND
A17	NC	B17	NC
A18	GND	B18	GND

## CN1: Power Switch Header

Pin	Signal
1	3.3V Power button
2	GNS

## JP2: CMOS Clear/AT\_ATX (Pin Header): Jumper Default (1-3 and 2-4)

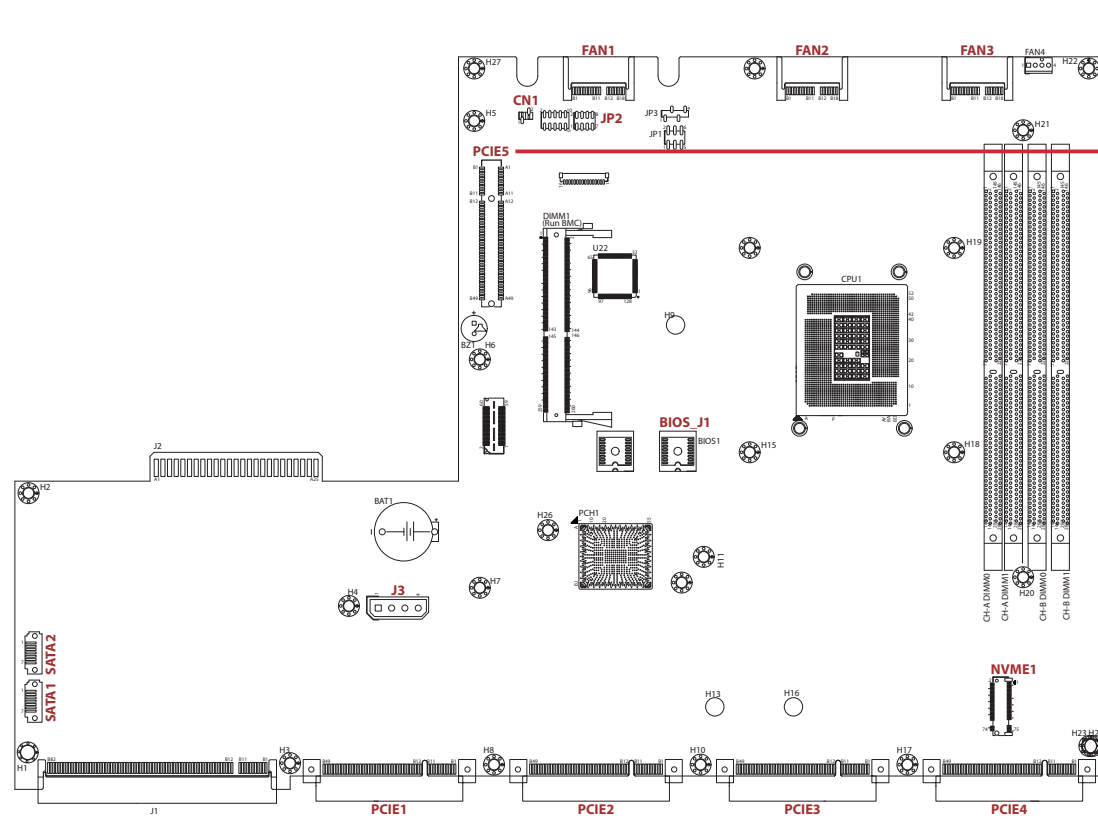
Pin	Signal	Pin	Signal
1	NC	2	3.3V
3	CMOS	4	AT_ATX_SEL
5	GND	6	GND
7	NC	8	NC

## BIOS\_J1: BIOS Socket (for SPI Flash)

Pin	Signal	Pin	Signal
1	IO3	9	IO2
2	3.3V	10	GND
3	NC	11	NC
4	NC	12	NC
5	NC	13	NC
6	NC	14	NC
7	CS#	15	MOSI
8	MISO	16	SCK



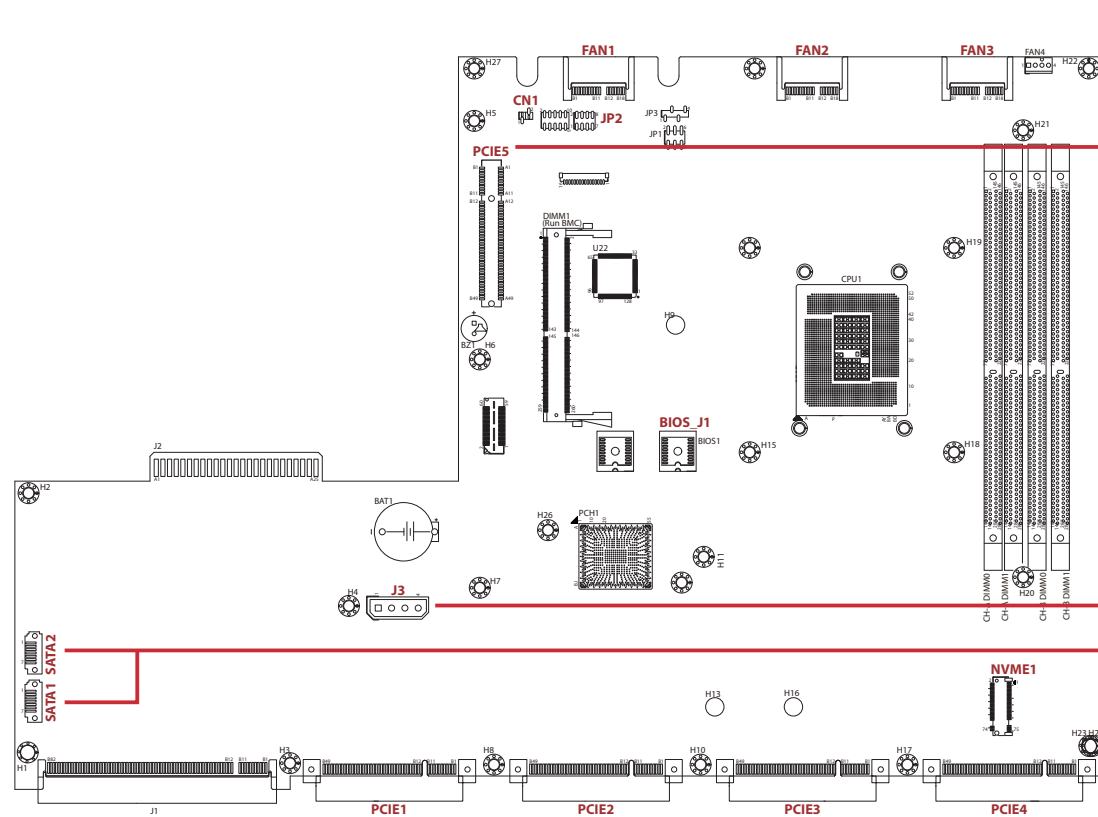
# NSA 5190 Quick Reference Guide



● **PCIE5: PCIe Slot (for Standard PCIe Card Only Support NVMe Storage)**

Pin	Signal	Pin	Signal
A1	GND	B1	12V
A2	12V	B2	12V
A3	12V	B3	12V
A4	GND	B4	GND
A5	NC	B5	SMBCLK
A6	NC	B6	SMBDAT
A7	NC	B7	GND
A8	NC	B8	3.3V
A9	3.3V	B9	NC
A10	3.3V	B10	3.3V AUX
A11	reset	B11	wake
A12	GND	B12	NC
A13	CLK	B13	GND
A14	CLK	B14	TXP
A15	GND	B15	TXN
A16	RXP	B16	GND
A17	RXN	B17	NC
A18	GND	B18	GND
A19	NC	B19	TXP
A20	GND	B20	TXN
A21	RXP	B21	GND
A22	RXN	B22	GND
A23	GND	B23	TXP
A24	GND	B24	TXN
A25	RXP	B25	GND
A26	RXN	B26	GND
A27	GND	B27	TXP
A28	GND	B28	TXN
A29	RXP	B29	GND
A30	RXN	B30	NC

# NSA 5190 Quick Reference Guide



## PCIE5: PCIe Slot (for Standard PCIe Card Only Support NVMe Storage)

Pin	Signal	Pin	Signal
A31	GND	B31	NC
A32	NC	B32	GND
A33	NC	B33	NC
A34	GND	B34	NC
A35	NC	B35	GND
A36	NC	B36	GND
A37	GND	B37	NC
A38	GND	B38	NC
A39	NC	B39	GND
A40	NC	B40	GND
A41	GND	B41	NC
A42	GND	B42	NC
A43	NC	B43	GND
A44	NC	B44	GND
A45	GND	B45	NC
A46	GND	B46	NC
A47	NC	B47	GND
A48	NC	B48	NC
A49	GND	B49	GND

## J3: SATA Power Connector

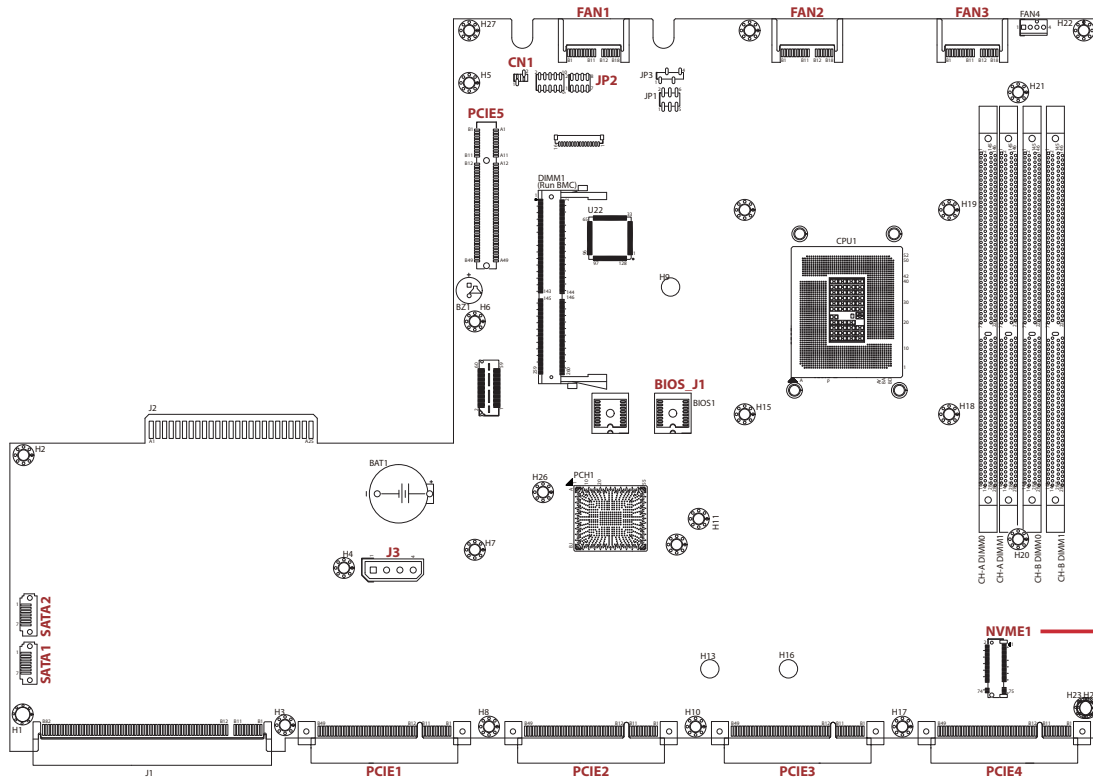
Pin	Signal
1	12V
2	GND
3	GND
4	5V

## SATA1/SATA2: SATA Gen3 Connector

Pin	Signal
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND



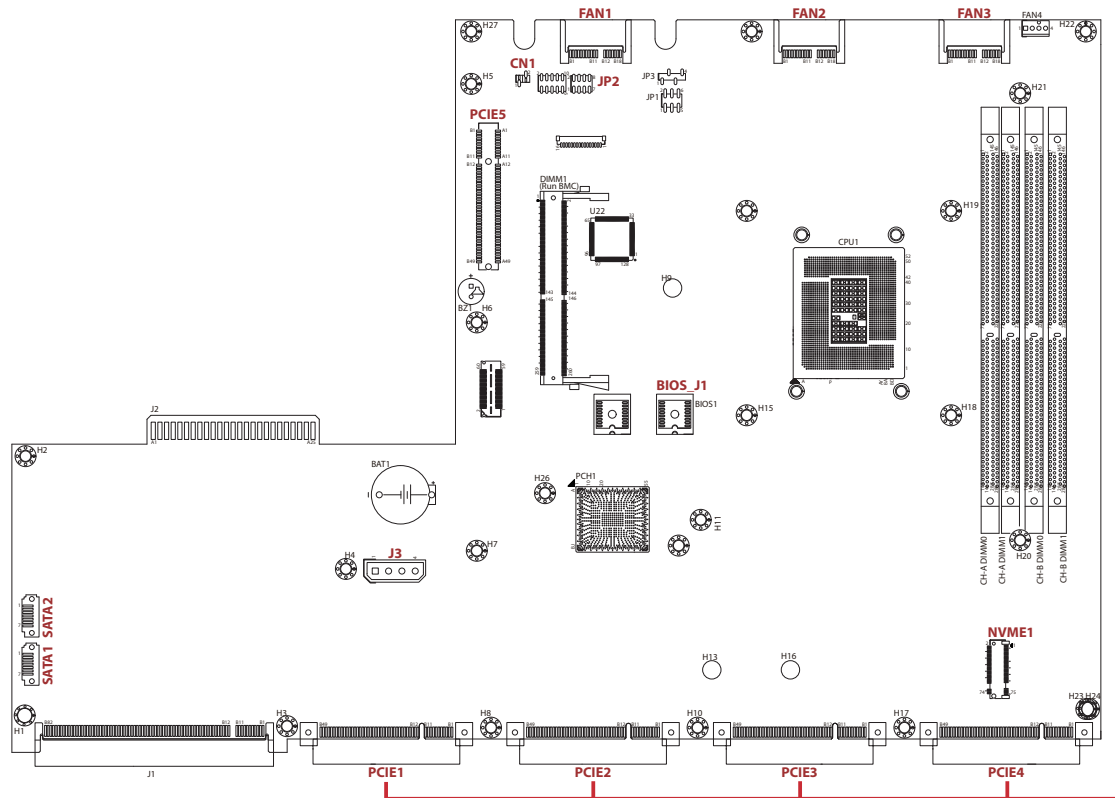
# NSA 5190 Quick Reference Guide



## ● NVME1: M.2 Key M (for PCIe)

Pin	Signal	Pin	Signal
1	GND	39	GND
2	3.3V	40	NC
3	GND	41	PCIe RXN
4	3.3V	42	NC
5	PCIe RXN	43	PCIe RXP
6	NC	44	NC
7	PCIe RXP	45	GND
8	NC	46	NC
9	GND	47	PCIe TXN
10	NC	48	NC
11	PCIe TXN	49	PCIe TXP
12	3.3V	50	reset
13	PCIe TXP	51	GND
14	3.3V	52	CLK request
15	GND	53	CLK N
16	3.3V	54	Wake
17	PCIe RXN	55	CLK P
18	3.3V	56	NC
19	PCIe RXP	57	GND
20	NC	58	NC
21	GND		
22	NC		
23	PCIe TXN		
24	NC		
25	PCIe TXP		
26	NC		
27	GND		
28	NC		
29	PCIe RXN	67	NC
30	NC	68	GND
31	PCIe RXP	69	NC
32	NC	70	3.3V
33	GND	71	GND
34	NC	72	3.3V
35	PCIe TXN	73	GND
36	NC	74	3.3V
37	PCIe TXP	75	GND
38	GND		

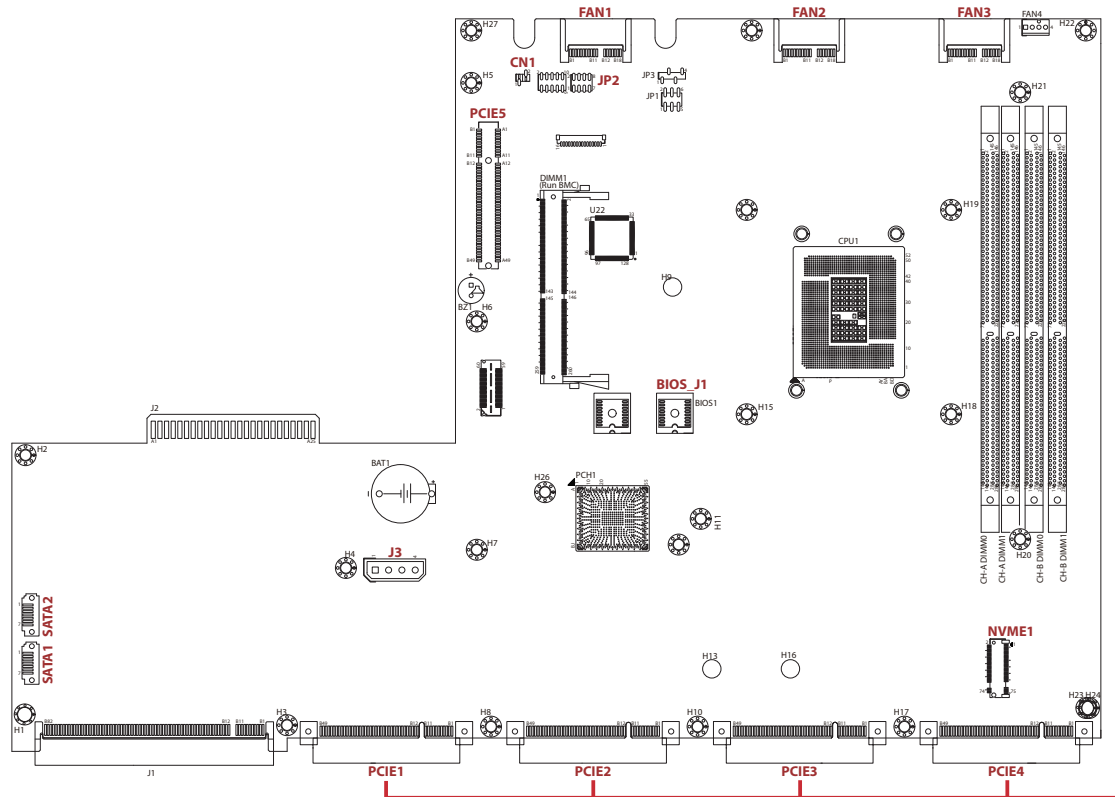
# NSA 5190 Quick Reference Guide



## PCIe1, PCIe2, PCIe3, PCIe4: PCIe Slot (for NEXCOM LAN Module)

Pin	Signal	Pin	Signal
A1	GND	B1	12V
A2	12V	B2	12V
A3	12V	B3	12V
A4	GND	B4	GND
A5	NC	B5	SMBCLK
A6	NC	B6	SMBDAT
A7	NC	B7	GND
A8	NC	B8	3.3V
A9	3.3V	B9	NC
A10	3.3V	B10	3.3V AUX
A11	reset	B11	wake
A12	GND	B12	NC
A13	CLK	B13	GND
A14	CLK	B14	TXP
A15	GND	B15	TXN
A16	RXP	B16	GND
A17	RXN	B17	NC
A18	GND	B18	GND
A19	NC	B19	TXP
A20	GND	B20	TXN
A21	RXP	B21	GND
A22	RXN	B22	GND
A23	GND	B23	TXP
A24	GND	B24	TXN
A25	RXP	B25	GND
A26	RXN	B26	GND
A27	GND	B27	TXP
A28	GND	B28	TXN
A29	RXP	B29	GND
A30	RXN	B30	NC
A31	GND	B31	NC
A32	NC	B32	GND
A33	NC	B33	TXP
A34	GND	B34	TXN
A35	RXP	B35	GND
A36	RXN	B36	GND
A37	GND	B37	TXP
A38	GND	B38	TXN
A39	RXP	B39	GND
A40	RXN	B40	GND

# NSA 5190 Quick Reference Guide



## PCIE1, PCIE2, PCIE3, PCIE4: PCIe Slot (for NEXCOM LAN Module)

Pin	Signal	Pin	Signal
A41	GND	B41	TXP
A42	GND	B42	TXN
A43	RXP	B43	GND
A44	RXN	B44	GND
A45	GND	B45	TXP
A46	GND	B46	TXN
A47	RXP	B47	GND
A48	RXN	B48	NC
A49	GND	B49	GND

