

R181-NA0 Hardware Quick Installation Guide

Motherboard Components

J1

		ON	OFF
1	HOST_SMBUS_SEL	BIOS defined	
2	PMBUS_SEL	BIOS defined	
3	S3_MASK	Stop initial power on when BMC is not ready	Normal [Default]
4	DB_PLD	CPLD debug mode	Normal [Default]

J2

		ON	OFF
1	ME_UPDATE	Force ME update	Normal [Default]
2	BIOS_PWD	Clear supervisor password	Normal [Default]
3	BIOS_RCVR	BIOS recovery mode	Normal [Default]
4	ME_RCVR	ME recovery mode	Normal [Default]

1

HDD back plane board connector

2

Front panel connector

3

Front panel USB 3.0 connector

4

TPM module connector

5

BMC firmware readiness LED

6

Case open intrusion header

7

IPMB connector

8

OCF mezzanine connector#1 (without KR signal)

9

Riser slot connector #1

10

sATA connector #5 (for ODD/2.5" HDD)

11

sATA connector #4

12

Slimline SAS connector #0

13

SATA DOM support power connector (for sATA connector #4)

14

SATA DOM support power connector (for sATA connector #5)

15

NCSI switch

16

OCF mezzanine connector#2 (with KR signal)

17

Riser slot connector #2

18

NVMe upgrade key

19

Power supply connector#1 (primary)

20

Power supply connector#2 (secondary)

21

2 x 7 Pin HDD back plane board power connector

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12

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19

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21

CPU0 (Primary)

CPU1 (Secondary)

System Components

1

2

3

4

5

6

7

8

9

10

1

Riser #1

2

Riser #2

3

Power supplies

4

DDR4 Meomery (for CPU1/Secondary)

5

CPU1 (Secondary)

6

DDR4 Meomery (for CPU0/Primary)

7

CPU0 (Primary)

8

System fan #1~#4

9

System fan #5~#8

10

Hard Disk Drives

CPU/Heat Sink

1

2

3

4

5

6

7

8

9

10

1

Heatsink

2

Package carrier

3

Processor Package

4

Booster Plate with spring

5

Socket-P

6

Backplate wuth Insulator

Memory

1

2

3

4

5

6

7

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Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V) Slot Per Channel (SPC) DIMM Per Channel (DPC)		
		DIMM Density		1 Slot per Channel	2 Slot per Channel	
		4Gb	8Gb	1DPC	1DPC	2DPC
RDIMM	SRx4	8GB	16GB	2666	2666	2666
RDIMM	SRx8	4GB	8GB			
RDIMM	DRx8	8GB	16GB			
RDIMM	DRx4	16GB	32GB			
RDIMM 3DS	QRx 4	N/A	2H-64GB			
LRDIMM	QRx4	32GB	2H 64GB			
LRDIMM 3DS	QRx4	N/A	4H 128GB			

Mezzanine Card

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System Cover

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Back Cover

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2

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4

5

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10

Front Panel LEDs and Buttons

1

2

3

4

5

6

7

8

1

RST

2

NMI

3

ID

4

ID

5

L1

6

L2

7

L1

8

L2

No.	Name	Color	Status	Description
1	Reset Button			Press the button to reset the system.
2	NMI Button			Press the button to enable NMI function.
3	Power Button with LED	Green	Solid On	System is powered on.
		Green	Blink	System is in ACPI S1 state (sleep mode).
		N/A	Off	System is not powered on or in ACPI S5 state (power off). System is in ACPI S4 state (hibernate mode).
4	ID Button			Press the button to activate system identification.
5	HDD Status LED	Green	On	HDD locate
			Blink	HDD access
		Amber	On	HDD fault
		Green/Amber	Blink	HDD rebuilding
		N/A	Off	No HDD access or no HDD fault.
6	System Status LED	Green	Solid On	System is operating normally.
			Solid On	Critical condition, may indicates: System fan failure System temperature
		Amber	Blink	Non-critical condition, may indicates: Redundant power module failure Temperature and voltage issue Chassis intrusion
			Off	System is not ready, may indicates: POST error NMI error Processor or terminator missing
7/8	LAN1/2 Active/Link LEDs	Green	Solid On	Link between system and network or no access.
		Green	Blink	Data transmission or receiving is occurring.
		N/A	Off	No data transmission or receiving is occurring.

Hard Disk Drive

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10

Hard Disk Drive LED

1

2

3

4

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10

1

LED1

2

LED2

RAID SKU	LED1	Locate	HDD Fault	Rebuilding	HDD Access	HDD Present (No Access)
No RAID configuration (via HBA, ICH)	Disk LED (LED on Back Panel)	Green	ON(*1)	OFF	Green	OFF
		Amber	OFF	OFF	Amber	OFF
	Removed HDD Slot (LED on Back Panel)	Green	ON(*1)	OFF	Green	--
		Amber	OFF	OFF	Amber	--
RAID configuration (via HW RAID Card or SW RAID Card)	Disk LED	Green	ON	OFF	Alternately	OFF
		Amber	OFF	ON	(Low Speed: 2 Hz)	OFF
	Removed HDD Slot	Green	ON(*1)	OFF	(*3)	--
		Amber	OFF	ON	(*3)	--

LED 2	HDD Present	No HDD
Green	ON	OFF