COM-HPC Server Front Panel Connection

Instruction Guide

COM-HPC

Revision: Rev. 0.1 Preliminary
Date: 2023-05-04
Part Number: 50M-00051-1000

ADLINK LEADING EDGE COMPUTING

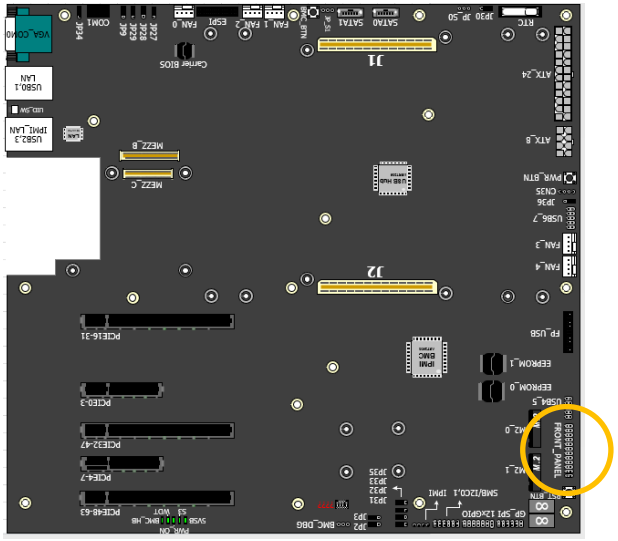
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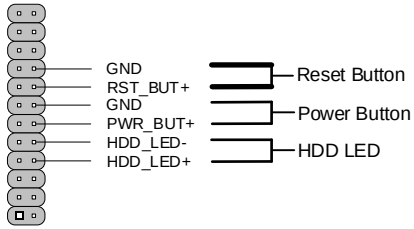
1. Front Panel Connection

Few interfaces defined on the carrier for the front panel connection, such as USB2.0, USB3.0 and Power Button, Reset Button and LEDs.

1.1. Front_Panel_1

FRONT_PANEL: Power Button, Reset Button, HDD LED for front panel



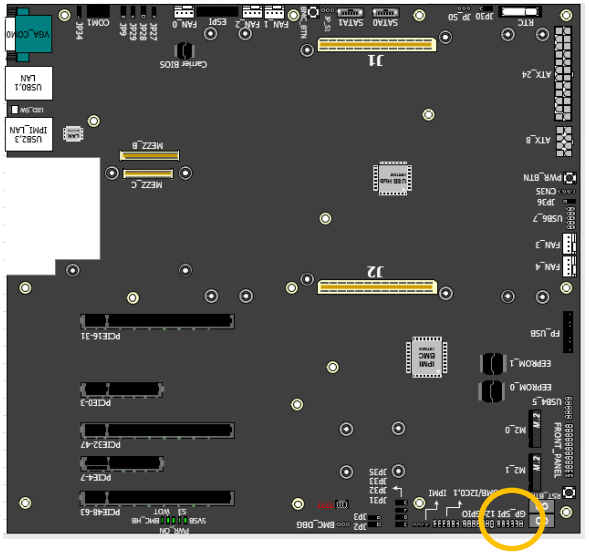


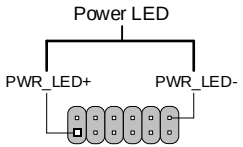
Pin	Signal	Pin	Signal
23	N.C	24	NMI_SW
21	N.C	22	GND
19	CASE_OPEN_N	20	R_UID_BUT_P
17	SENSOR_SCL	**18**	**GND**
15	SENSOR_SDA	**16**	**RST_BUT_P**
13	N.C	**14**	**GND**
11	N.C	**12**	**PWR_BUT_P**
9	SLED_R	**10**	**HDD_LED_N**
7	SLED_G	**8**	**HDD_LED_P**
5	UID_LED_P	6	N.C
3	UID_LED_N	4	FAN_FAIL_LED_N
1	5VSB	2	N.C

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1.2. Front_Panel_2

GP_SPI: Power LED for front panel



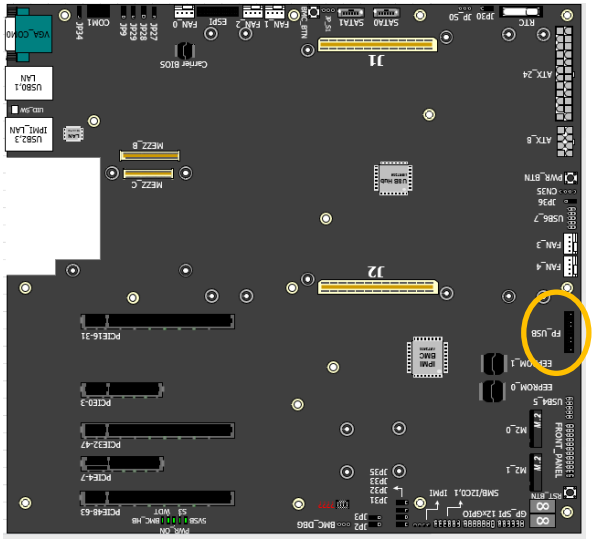


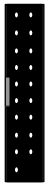
Pin	Signal	Pin	Signal
1	**+3.3V**	2	NC
3	GP_SPI_CLK (x86)	4	GP_SPI_MOSI (x86)
5	GP_SPI_CS2 (x86)	6	GP_SPI_MISO (x86)
7	GP_SPI_CS3 (x86)	8	GP_SPI_CS0 (x86)
9	GP_SPI_ALT (x86)	10	GP_SPI_CS1 (x86)
11	NC	**12**	**GND**

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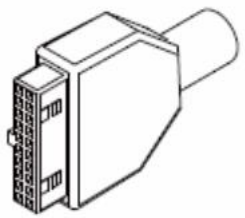
1.3. USB3.x Ports Header

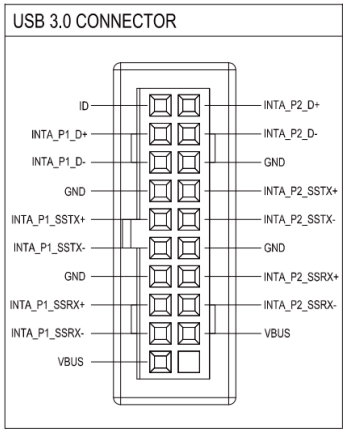
FP_USB: USB 3.0 Ports for Front Panel Header





Pin	Signal		
1	TP336	2	USB_DS3_DP_CN
3	USB2_P_CN	4	USB_DS3_DN_CN
5	USB2_N_CN	6	GND
7	GND	8	USB_SSTX5_P_CN
9	USB_SSTX4_P_CN	10	USB_SSTX5_N_CN
11	USB_SSTX4_N_CN	12	GND
13	GND	14	USB_SSRX5_P_CN
15	USB_SSRX4_P_CN	16	USB_SSRX5_N_CN
17	USB_SSRX4_N_CN	18	USB_VBUS
19	+5V		





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