Version 1.0

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ESD

(ESD, electrostatic sensitive devices)



ESD

- ESD
-
- ESD
- ESD
- ESD

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1

1.1

PAC-3010 BOX Intel Elkhart Lake

- Intel J6412 SoC
- 1 32GB DDR4 SO-DIMM
- HDMI
- 2xENET, 1xECAT
- 2xUSB3.0, 2xUSB2.0,
- 1x mSATA 1xmPCIe
- 2x RS485, 1x RS232,
- :2DI&2DO :16DI&12DO
- MCU LCD
- DC IN 24V. 250ms

	- PAC-3010	
	CPQ	

2

2.1

2.2

0 40

20% 85%

10cm

50cm

⚠

12

2.3

2.3.1

-
-
-
-

2.4

-
-
-
- 50mm 100mm
- (
-
- I/O 0.5V



3.2.2 PAC-3011

mm

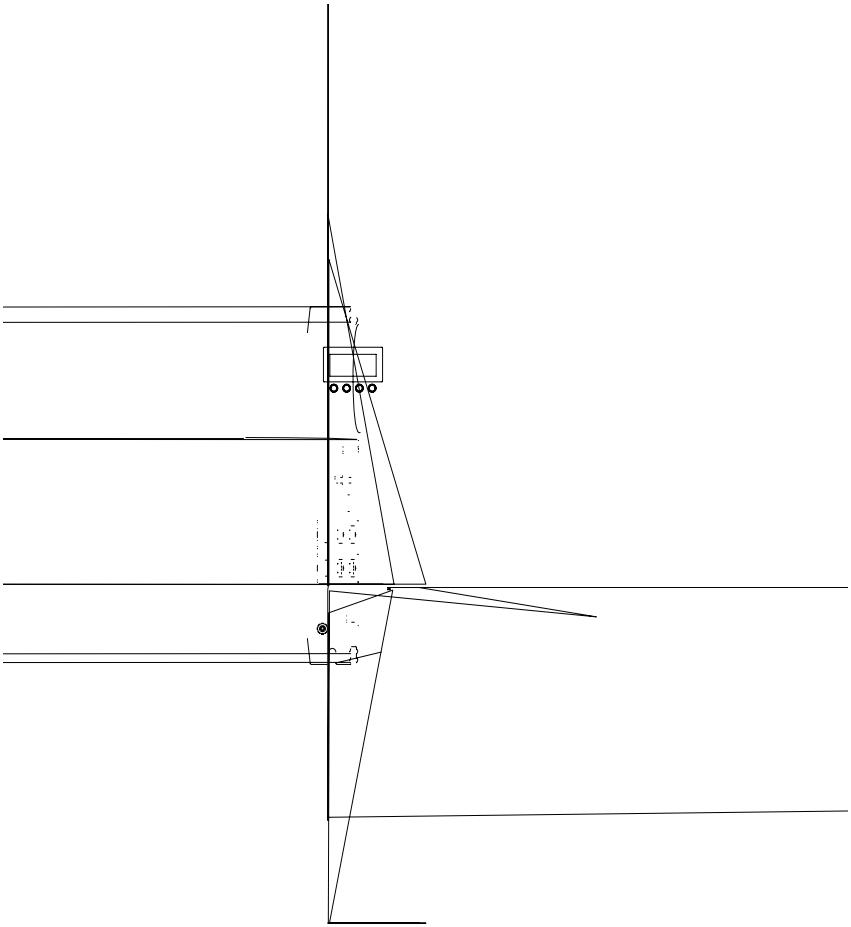
3.3

3.3.1 PAC-3010

mm

3.3.2 PAC-3011

mm



3.4 DIN

3.4.1 PAC-3010 DIN

mm

3.4.2 PAC-3011 DIN

mm

4

4.1

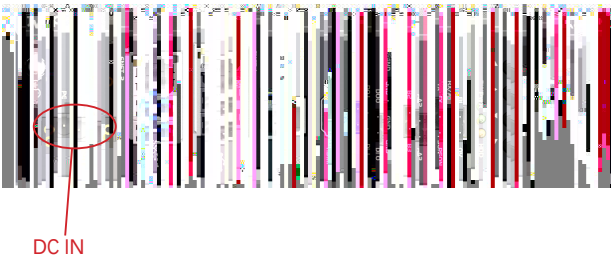
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I/O USB I/O

4.2

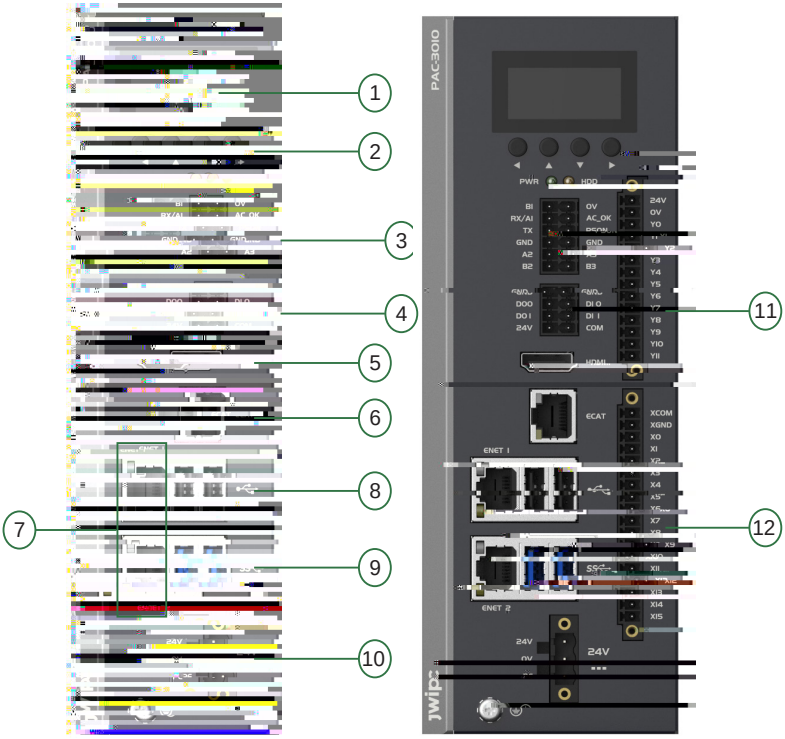
DCIN	

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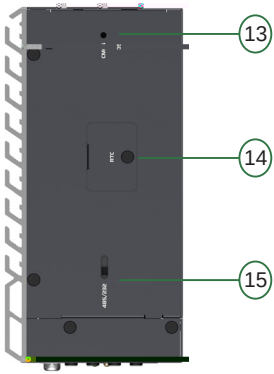
5

5.1 PAC-3010/3011

5.2 PAC-3010/3011 IO







1. LCD LCD
2. BUTTON:
3. COM: COM
4. DI/DO: DI/DO
5. HDMI: HDMI
6. ECAT: RJ45
7. ENET: RJ45
8. USB2.0 : USB2.0
9. USB3.0 : USB3.0
10. DC IN: 3PIN
11. DO: DO
12. DI: DI
13. COMS: CMOS
14. RTC: RTC
15. 485/232:

5.3

		LED	
POWER			
HDD			

	1	COM3_485-	2	COM2_485-
	3	COM3_485+	4	COM2_485+
	5	DIO_GND	6	

5.7

5.7.1 CPUFAN1

1	GND
2	+V5
3	CFAN_IN
4	CFAN_OUT
5	GND
6	GND

5.7.2 JMCU1

1	MCU_PWR
2	MCU_PWR
3	GP35
4	SOUT_MCU
5	GP36
6	SIN_MCU
7	NC
8	GND
9	GND

5.7.4 JISP1

1	I2C_CPU_SCL
2	I2C_CPU_SDA
3	GND

5.7.5 F_USB1

1	USB2_PWR2	2	USB2_PWR2
3	USB2_D3-	4	USB2_D5-
5	USB2_D3+	6	USB2_D5+
7	GND	8	GND

5.8

5.8.1 DIO1

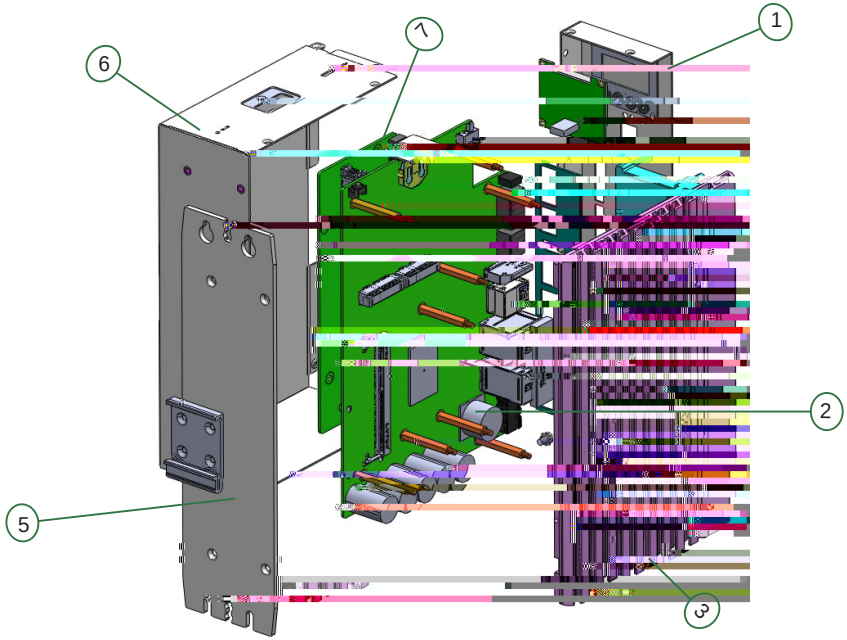
1	DIN15	2	DIN14
3	DIN13	4	DIN12
5	DIN11	6	DIN10
7	DIN9	8	DIN8
9	DIN7	10	DIN6
11	DIN5	12	DIN4
13	DIN3	14	DIN2
15	DIN1	16	DIN0
17	DIO_GND	18	DI_COM

16 GPI
1. 0.05A
2. DI

D e

6

6.1



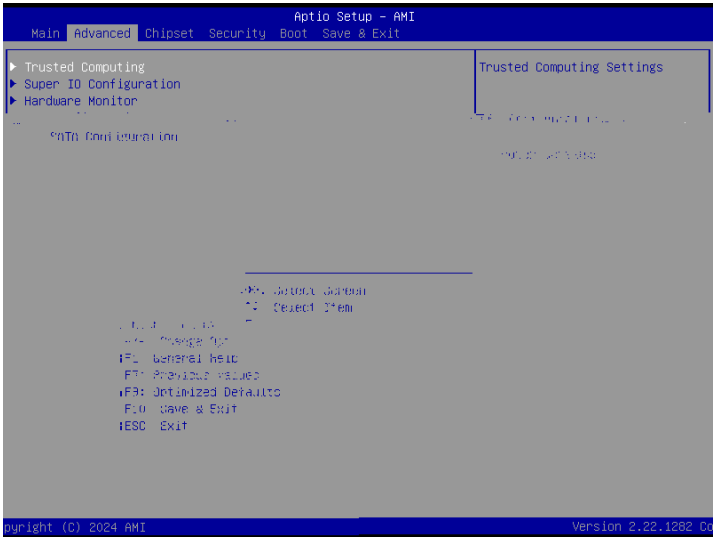
1	IO	2		3	
4		5		6	
7					

7.3 BIOS

7.4 Main

System Date ( )

7.5 Advanced



Trusted Computing		
Super IO Configuration	Super IO	
Hardware Monitor		
CPU Configuration	CPU	
SATA Configuration	SATA	
Power Settings		

- Trusted Configuration <Enter>

Security Device Support

BIOS

Disable,Enable.

SHA256/SHA384/SM3_256 PCR Bank

SHA256/SHA384/SM3_256 PCR Bank

Disable,Enable.

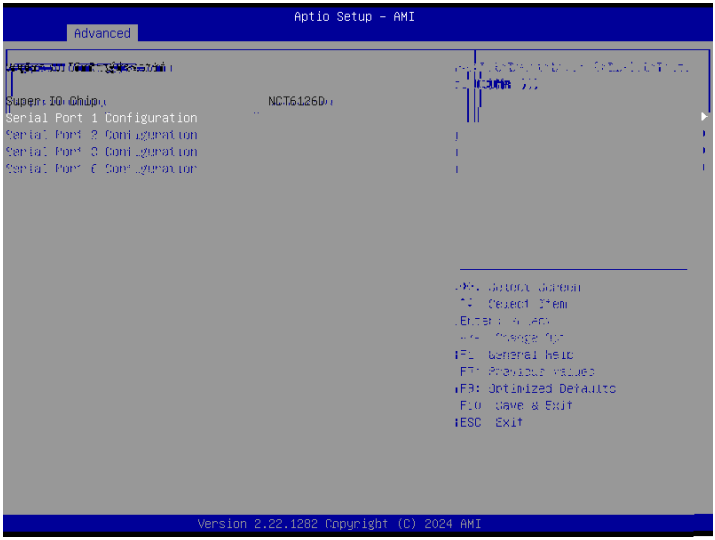
Pending Operation

srecurity

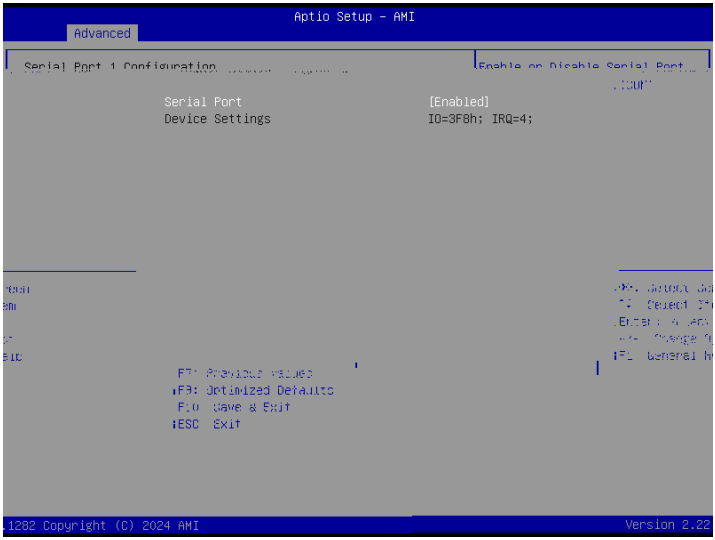
None,TPM Clear.

[illegible]atform Hierarchy [illegible]

- Super IO Configuration <Enter>



- Serial Port 1/2/3/6 Configuration <Enter>



Serial Port

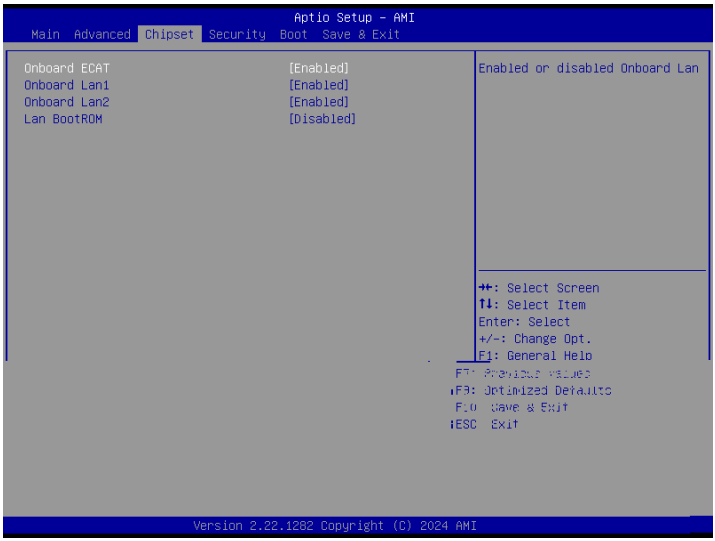
Disable,Enable.

SATA Controller

SATA

Disable,Enable.

7.6 Chipset



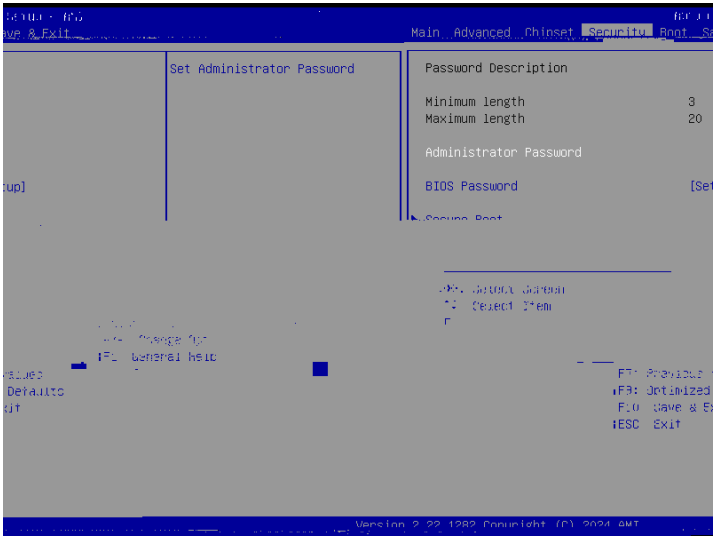
Onboard ECAT

EtherCA

Disable,Enable.

Onboard Lan1

7.7 Security



Administrator Password

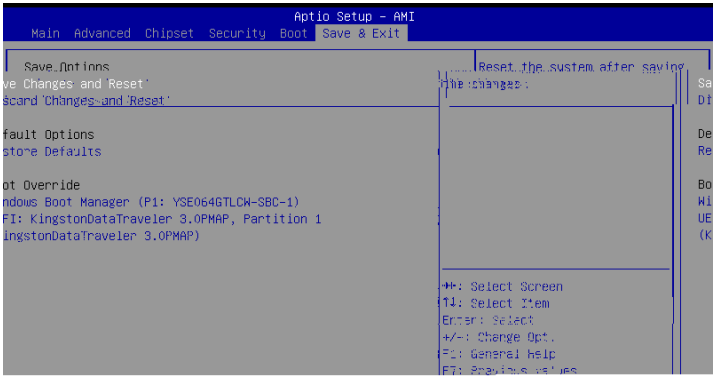
1. Administrator Password <Enter>
2. “ Create New Password ” 3~20 <Enter> “ Confrm Password ” “ Invalid Password! ”

“ Administrator Password ” “ Enter Current Password ” “ Create New Password ” <Enter>

BIOS Password

BIOS

7.9 Save&Exit



Save Changes and Reset

Discard Changes and Reset

Restore Defaults

9

9.1

		/
		1 2 12
	“ ”	
		1 2 3
		Winpe
I O		PCI ISA
	BIOS	BIOS Setup BIOS Setup
BIOS		
Boot device not found	BIOS	BIOS “ ” (Boot)
USB	USB 2.0 USB 2.0	USB 2.0
	USB	1 USB Legacy Support USB 2 USB