PAC-3030



Version 1.0

1 1
1.1 1
1.2 1
1.3 2
2 3
2.1 3
2.2 3
2.3 3
2.3.1 3
2.4 3
3 #1111111111

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9.1 30

1

1.1

PAC-3030 BOX Intel Elkhart Lake

- Intel J6412 SoC
- 1×SODIMM DDR4 Memory max 32GB
- HDMI+DP
- 2xLAN, 1xECAT
- 2xUSB3.0, 2xUSB2.0
- 1xRS485,1xRS232
- 1x mSATA 1x mPCIe
- DC IN 24V. supercapacitor inside

	- PAC-3030	
	CPU	

2

2.1

2.2

0 ‘ 40

20%‘ 85%

10cm

50cm

⚠

12

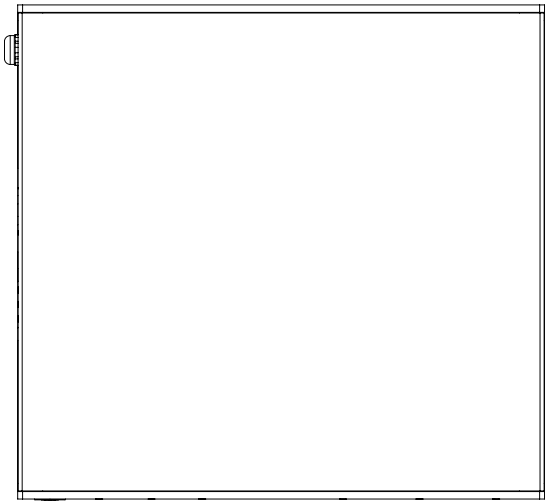
2.3

2.3.1

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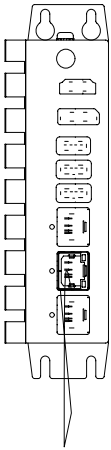
2.4

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



3.3

mm



4

4.1

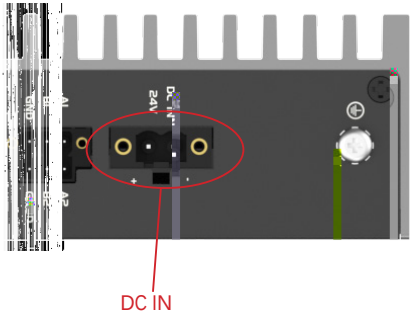
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I/O USB I/O

4.2

DCIN	

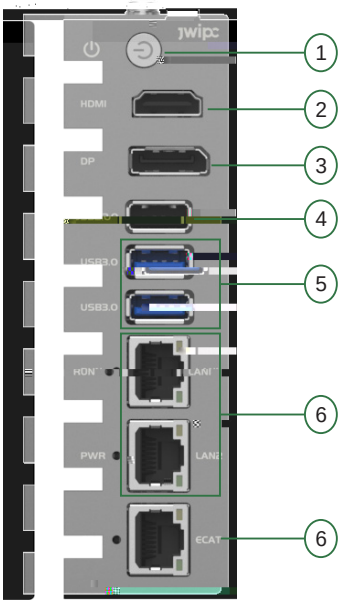
⚠

5

5.1



5.2 IO



1. PWR Button
2. HDMI: HDMI
3. DP: DP
4. USB2.0: USB2.0
5. USB3.0: USB3.0
6. LAN/ECAT: RJ45
7. DC IN: 2PIN
8. COM: COM

5.6.1 HDMI

1	HDMI3_TX2_DP
2	GND
3	HDMI3_TX2_DN
4	HDMI3_TX1_DP
5	GND
6	HDMI3_TX1_DN
7	HDMI3_TX0_DP
8	GND
9	HDMI3_TX0_DN
10	HDMI3_CLK_DP

5.6.9 ECAT

6

6.1



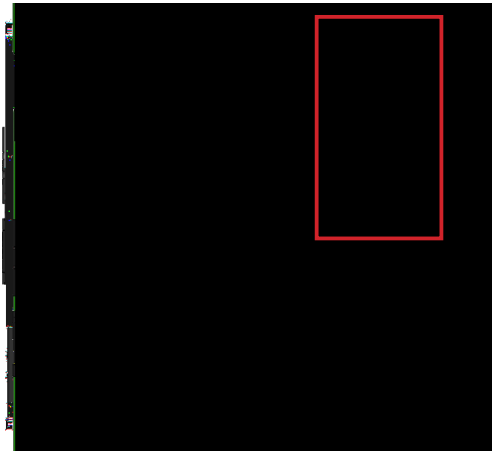
1		2		3	CPU
4		5		6	
7					

6.2



1
2
3

6.4 Miqi PCIe



Mini PCIe Msata

30°

7 BIOS

7.1 BIOS

AMI BIOS BIOS Basic Input Output System (
ROM Read-Only Memory) BIOS

a. POST(Power On Self Test)
b.
c.
d. SETUP
BIOS CMOS RAM
BIOS CMOS
BIOS

7.2 BIOS

BIOS Setup BIOS

SETUP

a. SETUP
b.

BIOS BIOS

7.2.1 BIOS

<DEL> BIOS





7.2.2

<Enter> <F1> <Esc>

← / →	
↑ / ↓	
+/ -	/
<Enter>	
<ESC>	SETUP
<F1>	
<F7>	
<F9>	
<F10>	SETUP

7.5 Adyaqced

- Trusted Conf guration <Enter>

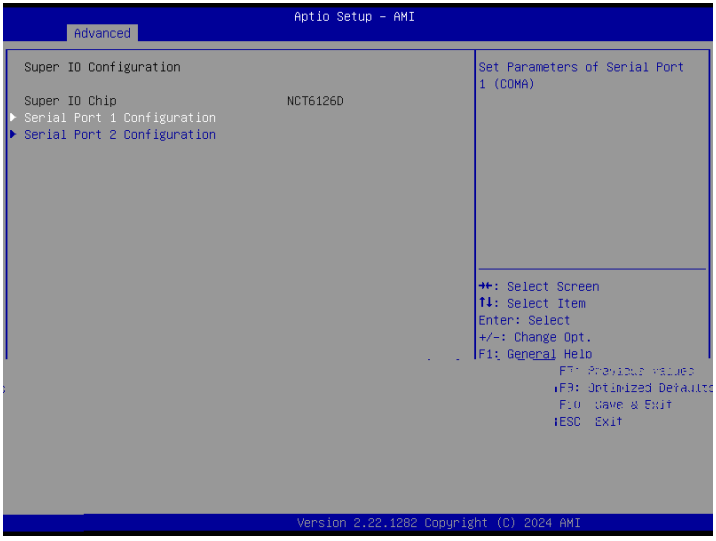


Secxuiw| Deyice Sxss ruw

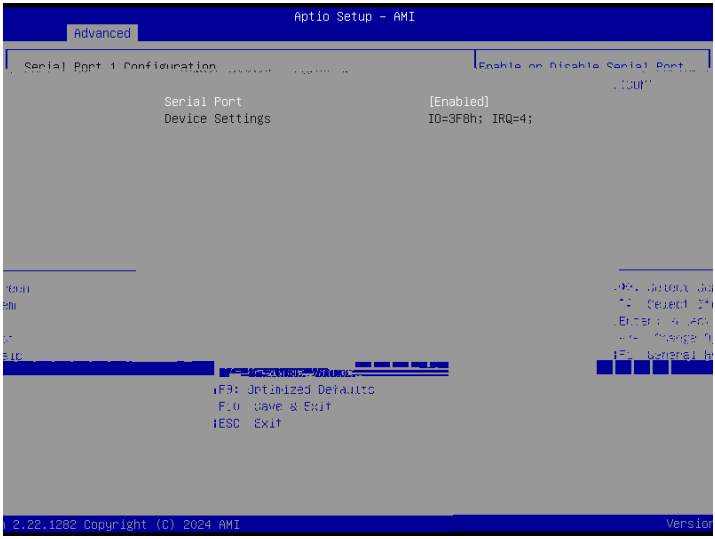
BIOS

Disable,Enable.

- Super IO Conf guration <Enter>



- Serial Port 1 Conf guration <Enter>

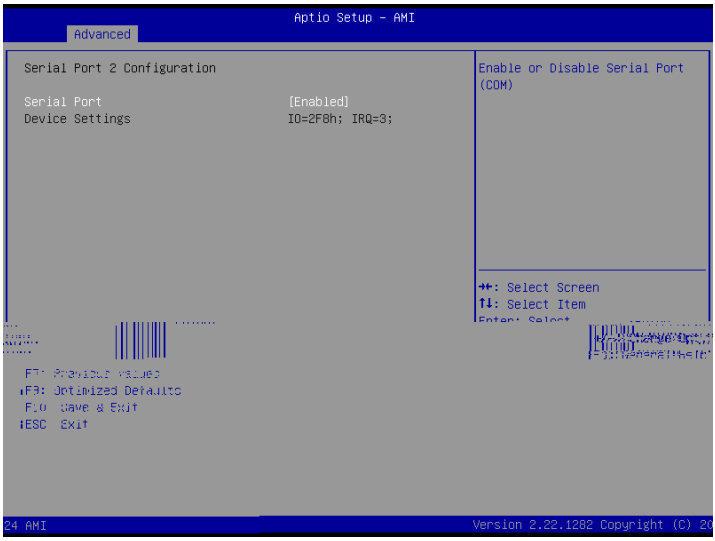


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Disable,Enable.

- Serial Port 2 Conf guration <Enter>

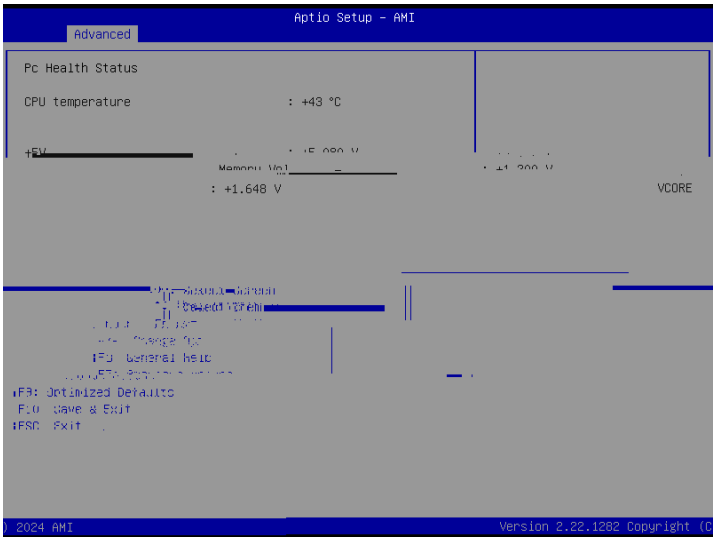


Seuia0 Pruw

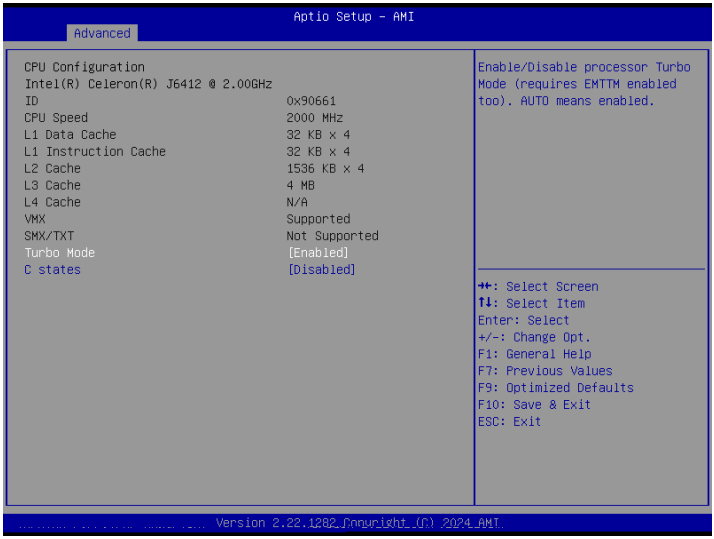
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Disable,Enable.

- Hardware Monitor <Enter>



- CPU Conf guration <Enter>



Txubr Mrde

Disable,Enable.

. C vwawev

C

Disable,Enable.

Pr z eu Lrvv

Powe On,Power O f ,Last State.

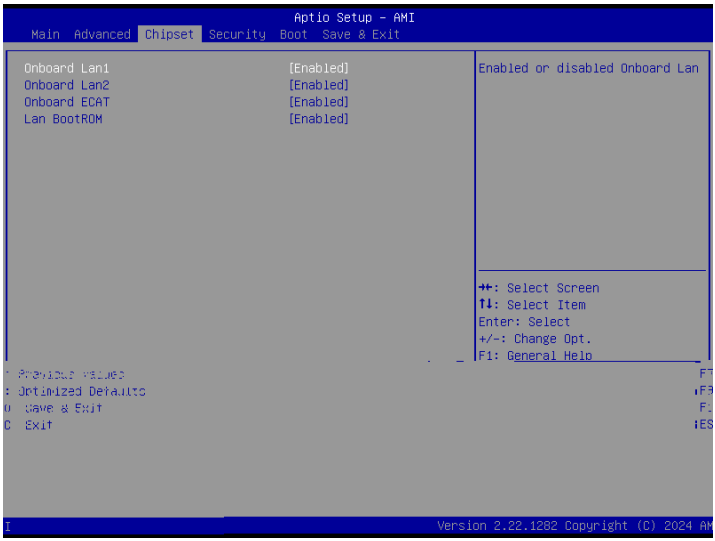
LAN Wanexs

Disable,Enable.

RTC Wanexs

Disable,Fixed Time,Dynamic Time.

7.6 Chisvew



Oqb r aud Laq1

1

Disable,Enable.

Oqb r aud Laq2

2

Disable,Enable.

Oqb r aud ECAT

EtherCA

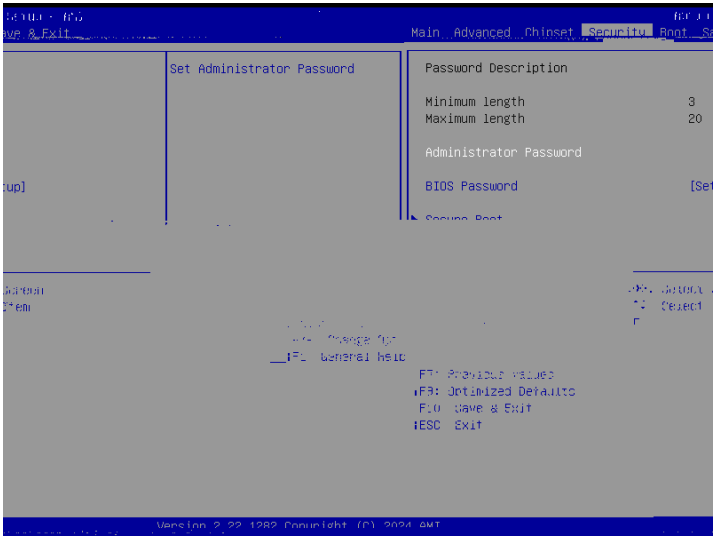
Disable,Enable.

LAN B r rwROM

PXE

Disable,Enable.

7.7 Secxuiw|



Ad piqivwuawru Pavvz rud

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

<Enter> “ Confrm Password ”

“ Invalid Password! ”

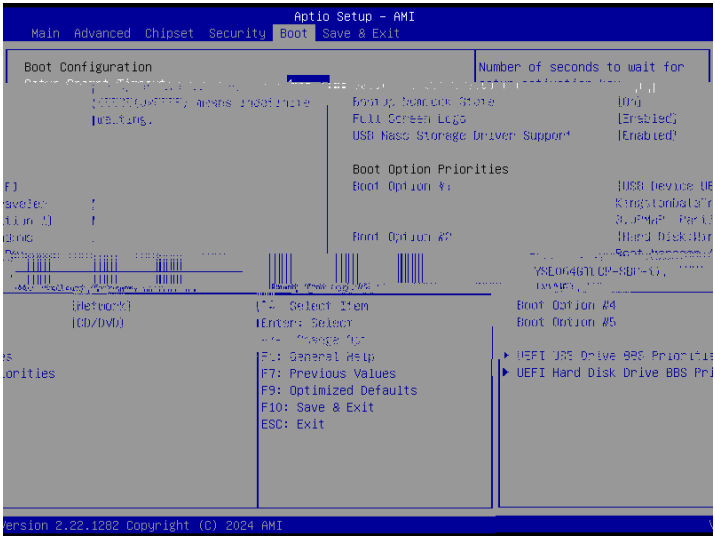
“ Administrator Password ” “ Enter Current Password ”

“ Create New Password ” <Enter>

BIOS Pavvz rud

BIOS

7.8 Brrw



Sewxs Pur p sw Tip e r xw

BIOS

Br r w Nx p Lrcn Swawe

NumLock

On,Of.

Fxoo Scueeq Lrgr

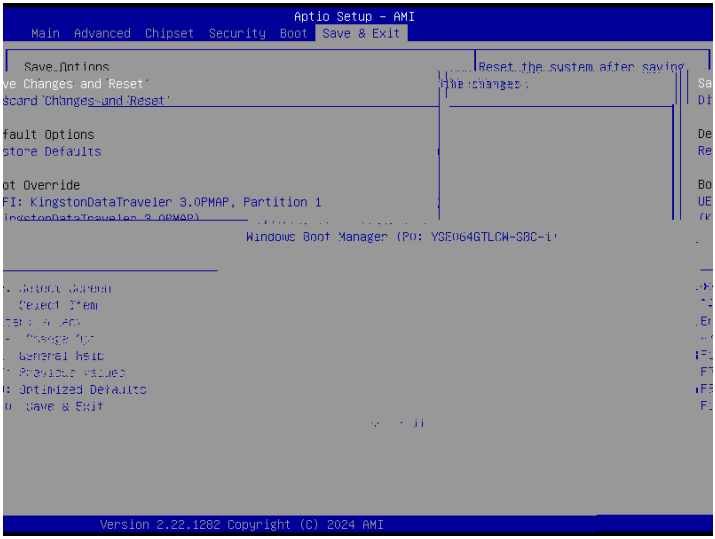
Disable,Enable.

USB Mavv Swruage Duiyeu Sxss ruw

USB

Disable,Enable.

7.9 Saye&E{iw



Saye Chaqgev aqd Revew

8

PAC-3030 WDT

8.1

```
#define SuperIo_Index_Port 0x2E
#define SuperIo_Data_Port 0x2F
#define GPIO_LDN8_DEVICE 0x08
UINT8 Data8

//a.        Super IO    Configuration Mode
IoWrite8(SuperIo_Index_Port, 0x87);
IoWrite8(SuperIo_Index_Port, 0x87);

//b.                    GPIO, LDN 8
IoWrite8(SuperIo_Index_Port, 0x07);
IoWrite8(SuperIo_Data_Port, GPIO_LDN8_DEVICE);

//c. Enabled WDT
IoWrite8(SuperIo_Index_Port, 0x30);
IoWrite8(SuperIo_Data_Port, IoRead8(SuperIo_Data_Port) | 0x01);

//d.        WDT                         Register 0xF0    Bit3          1                    0
IoWrite8(SuperIo_Index_Port, 0xF0);

//
IoWrite8(SuperIo_Data_Port, IoRead8(SuperIo_Data_Port) | 0x08);

//
// IoWrite8(SuperIo_Data_Port, IoRead8(SuperIo_Data_Port) & 0xF7);

//e.        WDT               5    /
IoWrite8(SuperIo_Index_Port, 0xF1);
IoWrite8(SuperIo_Data_Port, 0x5);

//f.        Super IO    Configuration Mode
IoWrite8(SuperIo_Index_Port, 0xAA); //        Super IO Configuration Mode        SuperIO
                                    ,                  Configuration Mode
```

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9.1

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