JVC-8100F



Version 1.0

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1

1.1

JVC-8100F D2000 h BOX h UOS h
Ч h h IO h Ч h h
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1.2

	- JVC-8100F
	- D2000/8 2.3GHz 8C 25W
	- 2 x 260-pin DDR4 2666MHz SODIMM h max 64GB
	- 1 x 2.5 d HDD/SSD
	- - 1 x VGA h VGA 1920 x 1200 @60Hz - 1 x HDMI h HDMI 4096 x 2160 @24Hz
	- 1 x Mic-in h 1 x Line-out Ў amp ў

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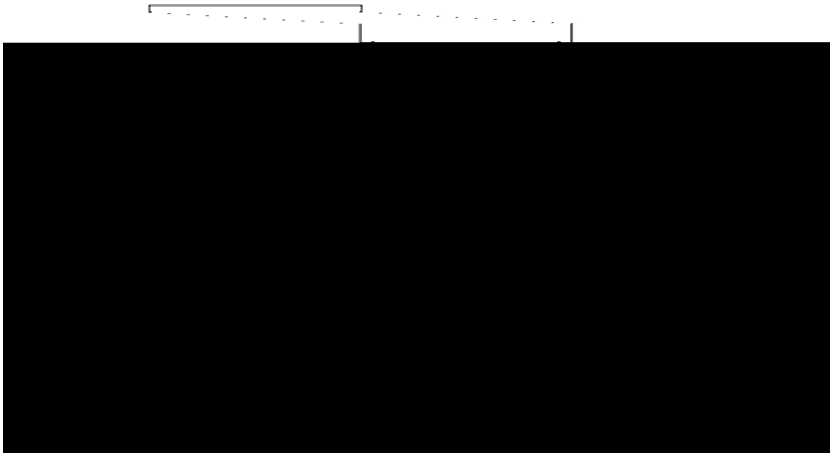
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3.2.1 JVC-8100F



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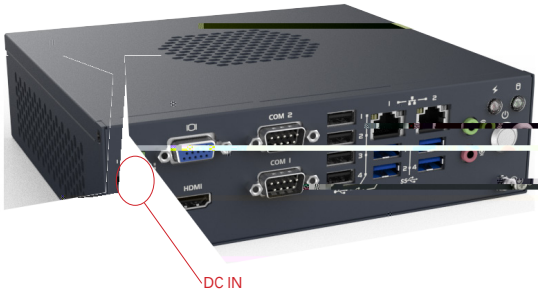
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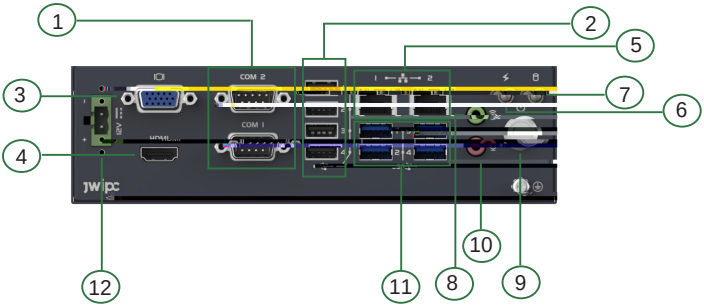
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5.1.1 JVC-8100F



5.2 IO

5.2.1 JVC-8100F IO



1. COM1/2 ↳
2. USB2.0 ↳ USB2.0
3. VGA ↳ VGA
4. HDMI ↳ HDMI
5. LAN1/2 ↳ RJ45
6. PWR ↳
7. HDD ↳
8. LINE OUT ↳
9. PWR Button ↳
10. MIC IN ↳
11. USB3.0 ↳ USB3.0
12. DC_IN ↳ DC

5.5 COM1/2

5.6

5.6.1 JLVDS1

	1	+V3.3
	2	LVDS Power
	3	+V5

5.6.2 JLVDS2

	1	NC
	2	LVDS Power
	3	+V12

5.6.3 INVT1

	1	+V12
	2	GND
	3	BKL_EN
	4	BKL_PWM
	5	+V5

5.6.4 LVDS1

[redacted]	1	LVDS Power	2	LVDS Power
	3	LVDS Power	4	GND
	5	GND	6	GND
	7	LVDS1_D0N	8	LVDS1_D0P
	9	LVDS1_D1N	10	LVDS1_D1P
	11	LVDS1_D2N	12	LVDS1_D2P
	13	GND	14	GND
	15	LVDS1_CLK1N	16	LVDS1_CLK1P
	17	LVDS1_D3N	18	LVDS1_D3P
	19	LVDS1_D4N	20	LVDS1_D4P
	21	LVDS1_D5N	22	LVDS1_D5P
	23	LVDS1_D6N	24	LVDS1_D6P
	25	GND	26	GND
	27	LVDS1_CLK2N	28	LVDS1_CLK2P
	29	LVDS1_D7N	30	LVDS1_D7P

5.6.7 GPIO1

	1	GPIO1_0	2	GPIO1_4
	3	GPIO1_1	4	GPIO1_5
	5	GPIO1_2	6	GPIO1_6
	7	GPIO1_3	8	GPIO1_7
	9	PVCC_GPIO	10	GND

5.6.8 GPIO2

5.6.10 COM7_14

	1	GND	2	GND
	3	COM7_SOUT	4	COM11_SOUT
	5	COM7_SIN	6	COM11_SIN
	7	GND	8	GND
	9	COM8_SOUT	10	COM12_SOUT
	11	COM8_SIN	12	COM12_SIN
	13	GND	14	GND
	15	COM9_SOUT	16	COM13_SOUT
	17	COM9_SIN	18	COM13_SIN
	19	GND	20	GND
	21	COM10_SOUT	22	COM14_SOUT
	23	COM10_SIN	24	COM14_SIN
	25	GND	26	GND

5.6.11 USB2_2

	1	+V5	2	+V5
	3	USB2_HUB_N6	4	USB2_HUB_N5
	5	USB2_HUB_P6	6	USB2_HUB_P5
	7	GND	8	GND
			10	GND

5.6.12 JFP1

	1	UART1_TXD	2	UART1_RXD
	3			

5.6.13 ATX_IN1

	1	GND	2	GND
	3	+12V	4	+12V

5.6.14 GPIO_PWR1

	1	+V5
	2	PVCC_GPIO
	3	+V3.3

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6.1.1 JVC-8100F

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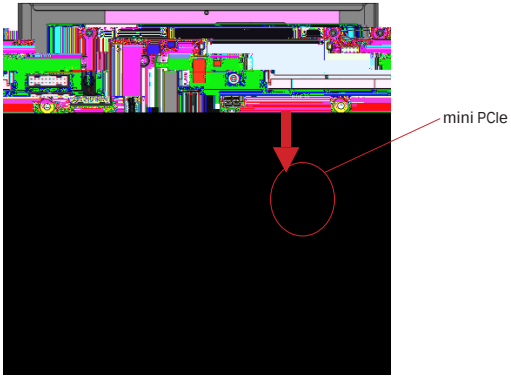
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6.4 mini PCIe

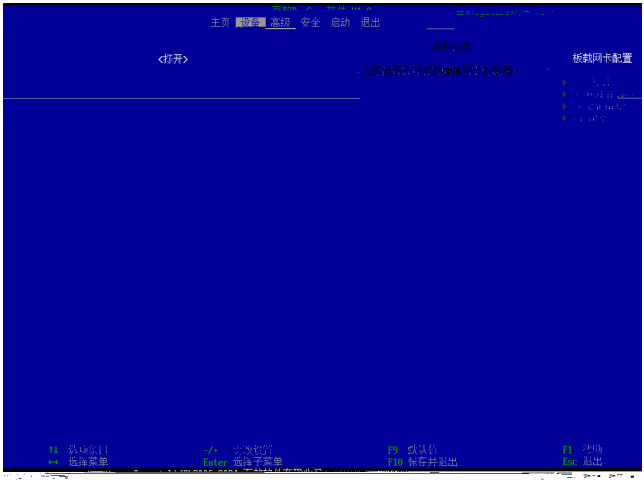


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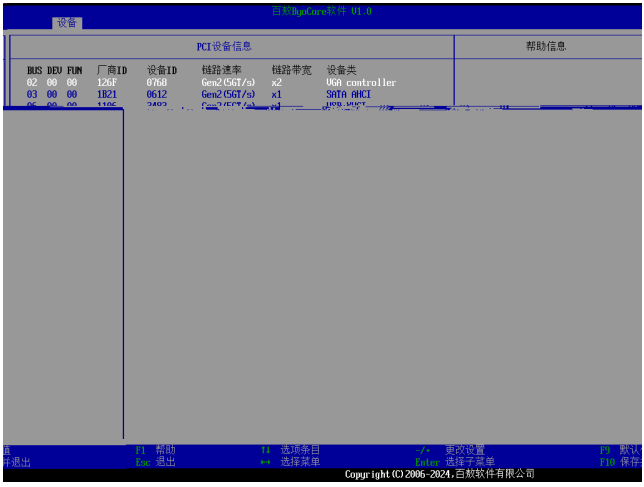


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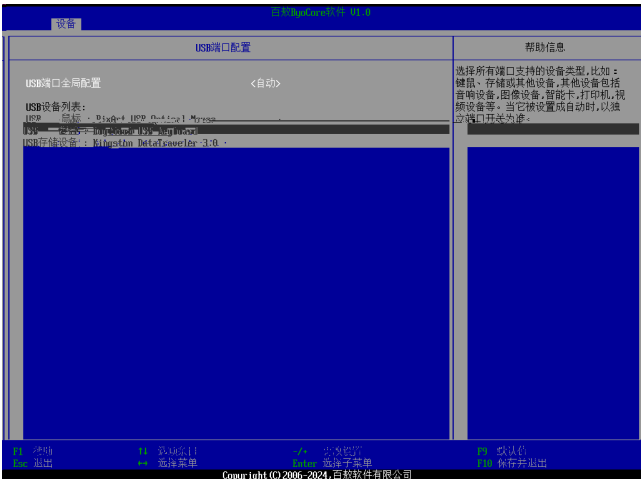
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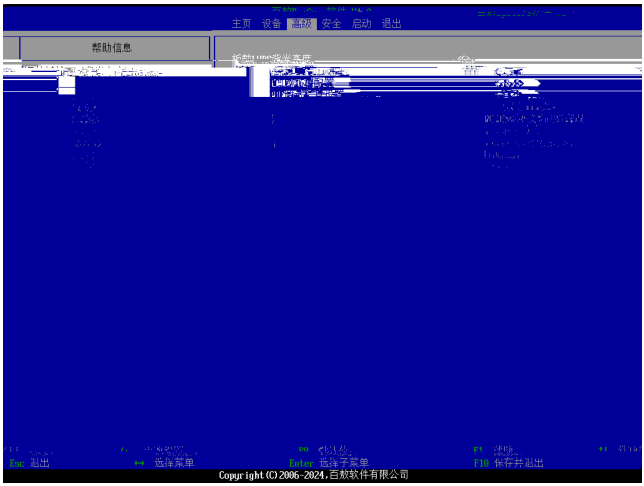
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LVDS

LVDS G

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PCIEX16

PCIEX16 G

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8 WDT

```
#dežne Superlo_Index_Port 0x2E
#dežne Superlo_Data_Port 0x2F
#dežne GPIO_LDN8_DEVICE 0x08
UINT8 Data8Ц

//a.      Super IO   Conžguration Mode
loWrite8(Superlo_Index_Port, 0x87);
loWrite8(Superlo_Index_Port, 0x87);

//b.                GPIO, LDN 8
loWrite8(Superlo_Index_Port, 0x07);
loWrite8(Superlo_Data_Port, GPIO_LDN8_DEVICE);

//c. Enabled WDT
loWrite8(Superlo_Index_Port, 0x30);
loWrite8(Superlo_Data_Port, loRead8(Superlo_Data_Port) | 0x01);

//d.      WDT                  h Register 0xF0   Bit3        1            h    0
loWrite8(Superlo_Index_Port, 0xF0);
//
loWrite8(Superlo_Data_Port, loRead8(Superlo_Data_Port) | 0x08);
//
// loWrite8(Superlo_Data_Port, loRead8(Superlo_Data_Port) & 0xF7);

//e.      WDT          ч 5   /
loWrite8(Superlo_Index_Port, 0xF1);
loWrite8(Superlo_Data_Port, 0x5);

//f.      Super IO   Conžguration Mode
loWrite8(Superlo_Index_Port, 0xAA); //      Super IO Conžguration Mode    h SuperIO
                                    ,              Conžguration Mode ь
```

9 GPIO

JVC-8100F GPIO I2C h :

(1) 9555 I2C-1

(2) Slave address 1 0x20

(3) GPIO0 I0.0HuI0.1HuI0.2HuI0.3HuI0.4HuI0.5HuI0.6HuI0.7 h /

(4) GPIO1 I1.0HuI1.1HuI1.2HuI1.3HuI1.4HuI1.5HuI1.6HuI1.7 h /

(5) I2C Command GPIO h 3 h H

a. 6Hu 7 H GPIO0HuGPIO1d h 0-7bit Ix.0-Ix.7 h bit 0 1 / h 1 Hu 0 G

b. 0Hu 1 H GPIO0HuGPIO1 h 0-7bit Ix.0-Ix.7 h 0Hu 1 GPIO0HuGPIO1 G

c. 2Hu 3 H GPIO0HuGPIO1 h 0-7bit Ix.0-Ix.7 h 2Hu 3 GPIO0HuGPIO1 G

(6) i2c h sudo apt install libi2c-dev

(7) H

```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <sys/ioctl.h>
<linux/i2c.h>
<unistd.h>
```

(8) H

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