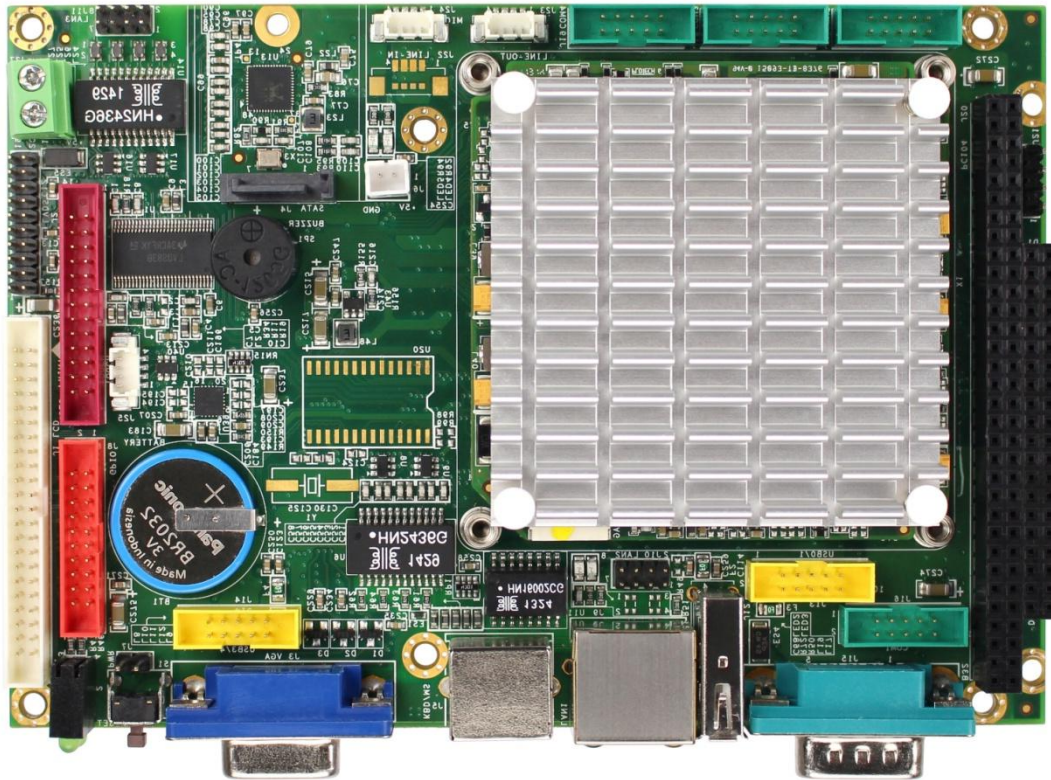




VDX3-6726

with
DM&P Vortex86DX3
1GHz processor

Version 2.0

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Revision History

Revision	Date	Remark
1.0	June 13, 2016	First version release
2.0	June 8, 2017	New Add: Working temperature for Dual Core version

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1 General Information

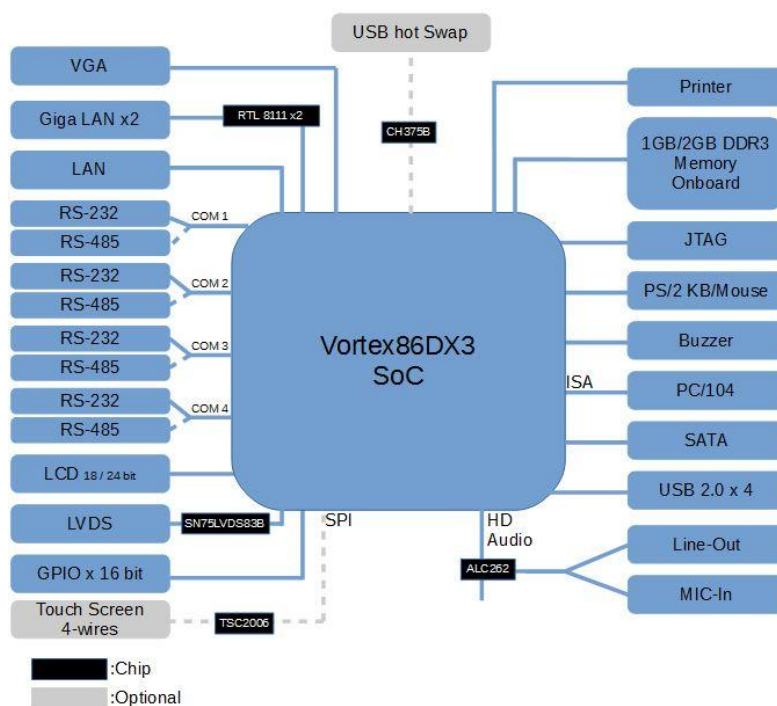
1.1 Overview

The VDX3-6726 family of low-power x86 embedded controller is designed to meet 3.5" specification with backward compatibility to provide migration path for projects facing end-of-life challenges with their existing x86 based 3.5" controller.

In addition, the VDX3-6726 family of controller is designed as a plug in replacement, with backward compatibility to support legacy software to help extend existing product life cycle without heavy re-engineering.

The VDX3-6726 is suitable for broad range of data-acquisition, industrial automation, process control, automotive controller, AVL, intelligent vehicle management device, medical device, human machine interface, robotics, machinery control and more

1.2 Block diagram



1.3 Specifications

Processor	DM&P SoC CPU Vortex86DX3 - 1GHz L1:32K I-Cache, 32K D-Cache, L2 Cache:512KB
RAM	1GB/2GB DDR3 Onboard
BIOS	AMI BIOS
Watchdog Timer	Software programmable from 30.5us to 512 seconds x2 sets
Display	Integrated 2D VGA chip with dual display support (VGA + LVDS) VGA: Maximum resolution up to 1920x1080 @ 60Hz LVDS: Maximum resolution up to 1024x768 @ 60Hz Single channel 24-bit LVDS
LAN	Integrated 10/100Mbps Ethernet x1 Realtek 8111F 10/100/1000Mbps Ethernet x2
Bus	PC/104 Standard Compliant
Audio	HD Audio
PWM	None
Optional Interface	PS/2 Touch Controller x1 USB hot SAWP x1
I/O Interface	SATA 7P Connector x1 RS232/485 port x4 Parallel port x1 USB port x5 (USB 2.0 version) 16-bit GPIO x1 10/100Mbps Ethernet port x1 10/100/1000 Mbps Ethernet port x2

Connectors	SATA 7P for SATA x1 2.0mm 44-pin box header for LCD x1 2.0mm 26-pin box header for Printer x1 2.0mm 20-pin box header for 16-bit GPIO x1 2.0mm 20-pin header for LVDS x1 2.0mm 10-pin box header for VGA x1 2.0mm 10-pin box header for USB x2 2.0mm 10-pin box header for RS232 x3 2.0mm 8-pin header for Ethernet x2 2.54mm 4-pin header for DC-in x1 2.54mm 2-pin header for Reset x1 1.25mm 4-pin Wafer for Lineout/MIC-in x2 External RJ45 connector for Ethernet x1 External Mini DIN connector for KDB/Mouse x1 External D-Sub 15 pin female connector for VGA x1 External D-Sub 9-pin male connector for RS232 x1
Power Requirement	Single Voltage +5V @1.3A (Typical)
Weight	150g
Dimensions	102mm x 146mm (4.01 x 5.75 inches)
Operating Temp.	-20°C ~ +70°C (Single Core) -10°C ~ +60°C (Dual Core) -40°C ~ +85°C (Optional for Single Core) -20°C ~ +70°C (Optional for Dual Core)
Operating System Support	DOS, Windows CE6.0/7.0/XP Professional/Embedded standard(XPE)/ Embedded Standard 7/POS Ready (WePoS), Embedded Linux, QNX, Vxworks, and FreeBSD.

1.4 Ordering Information

1.4.1 VDX3-6726

Product Name	1GB DDR3 onboard	2GB DDR3 onboard	Touch Function	Dual Core
VDX3-6726-1G	V			
VDX3-6726-2G		V		
VDX3-6726-2C-1G	V			V
VDX3-6726-2C-2G		V		V
VDX3-6726-1G-T	V		V	
VDX3-6726-2G-T		V	V	
VDX3-6726-2C-1G-T	V		V	V
VDX3-6726-2C-2G-T		V	V	V
CABLE-SET-6726				

1.4.2 Cable Set

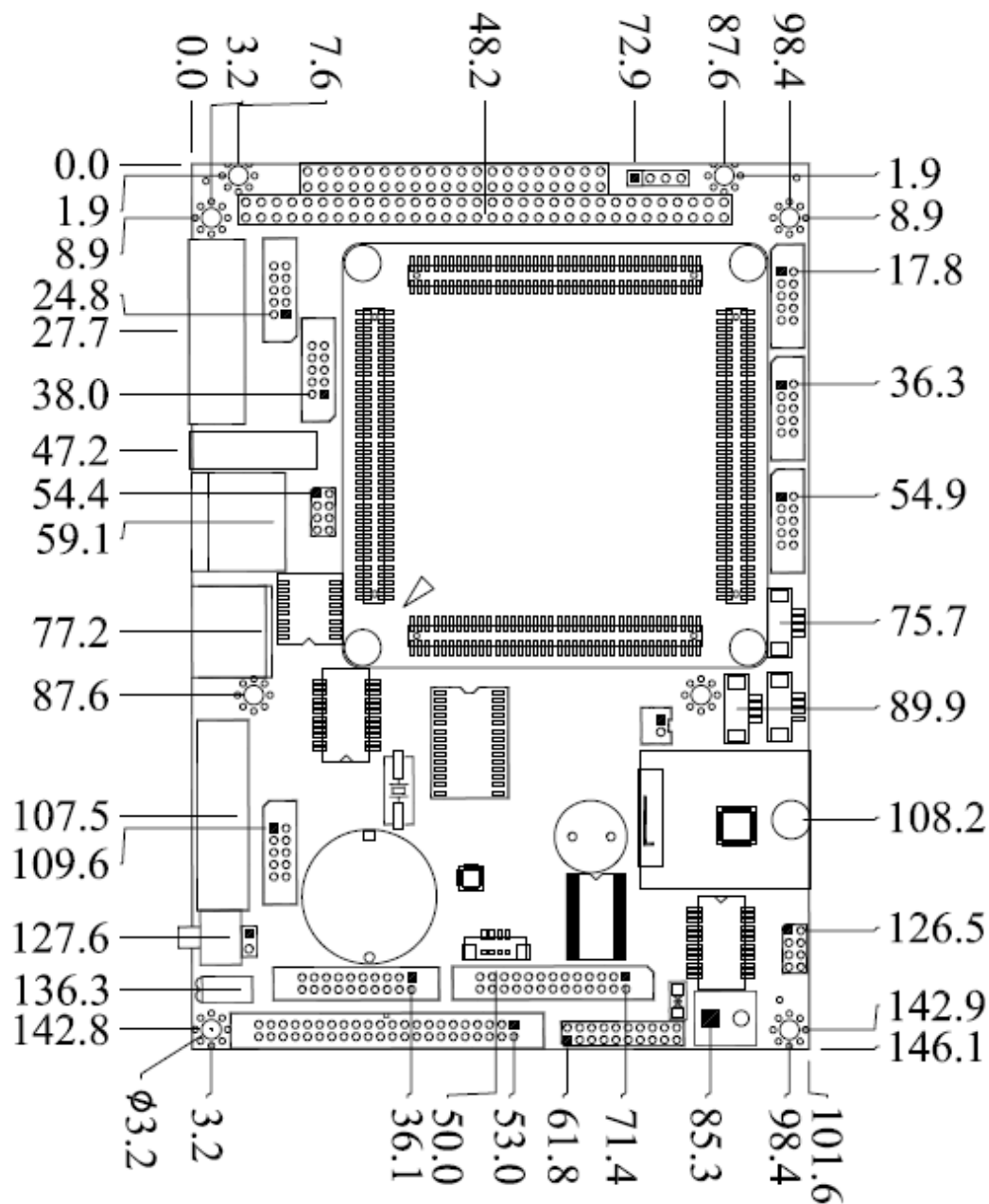
Product Name	Contents
Cable-set-6726	NET4X2 (2.0) x2 RS232(2.0) x4 GPIO(2.0) x1 USB(2.0) x2 PRINT(2.0) x1 Audio Line x2 YKB x1

1.4.3 SATA DOM

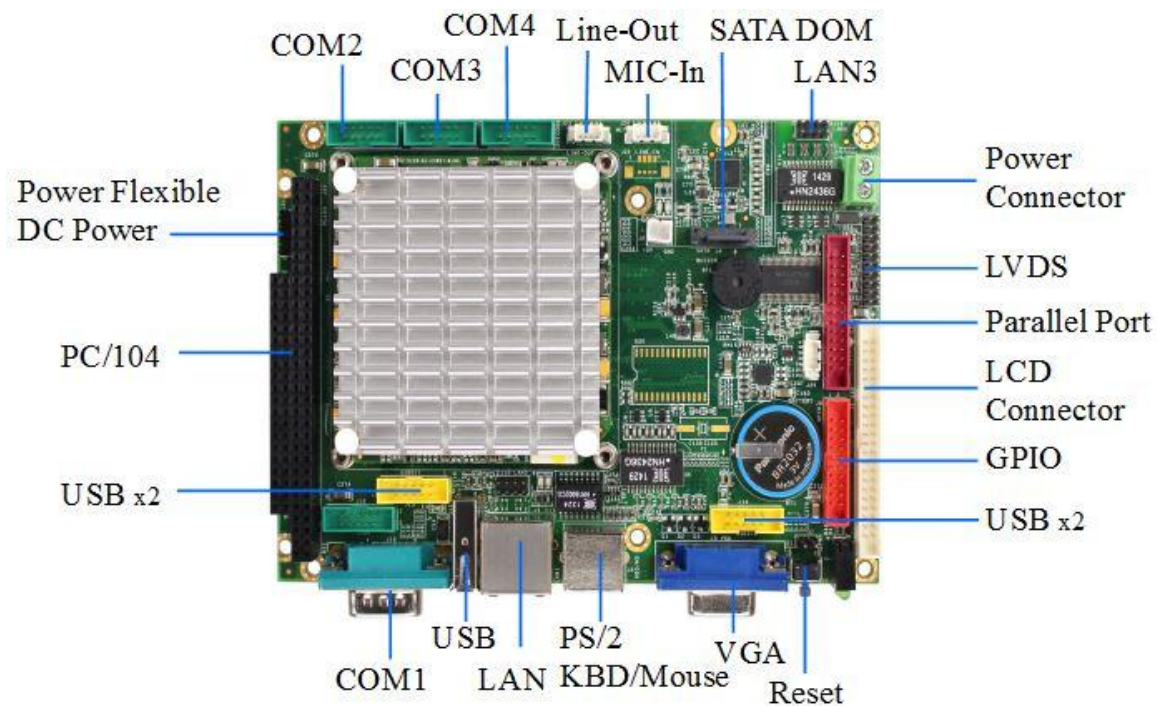
Product Name	MLC	SLC	0°C ~ +70°C	-40°C ~ +85°C
SDM-SST-2G-H-M	V		V	
SDM-SST-4G-H-M	V		V	
ISATA-8G-H-M	V		V	
ISATA-16G-H-M	V		V	
ISATA-32G-H-M	V		V	
ISATA-4G-H-M-X	V			V
ISATA-8G-H-M-X	V			V
ISATA-16G-H-M-X	V			V
ISATA-32G-H-M-X	V			V
ISATA-1G-H-S		V	V	
ISATA-2G-H-S		V	V	
ISATA-4G-H-S		V	V	
ISATA-8G-H-S		V	V	
ISATA-16G-H-S		V	V	
SDM-SST-2G-H-S-X		V		V
SDM-SST-4G-H-S-X		V		V
SDM-SST-8G-H-S-X		V		V
ISATA-16G-H-S-X		V		V

2 Hardware Information

2.1 Dimension



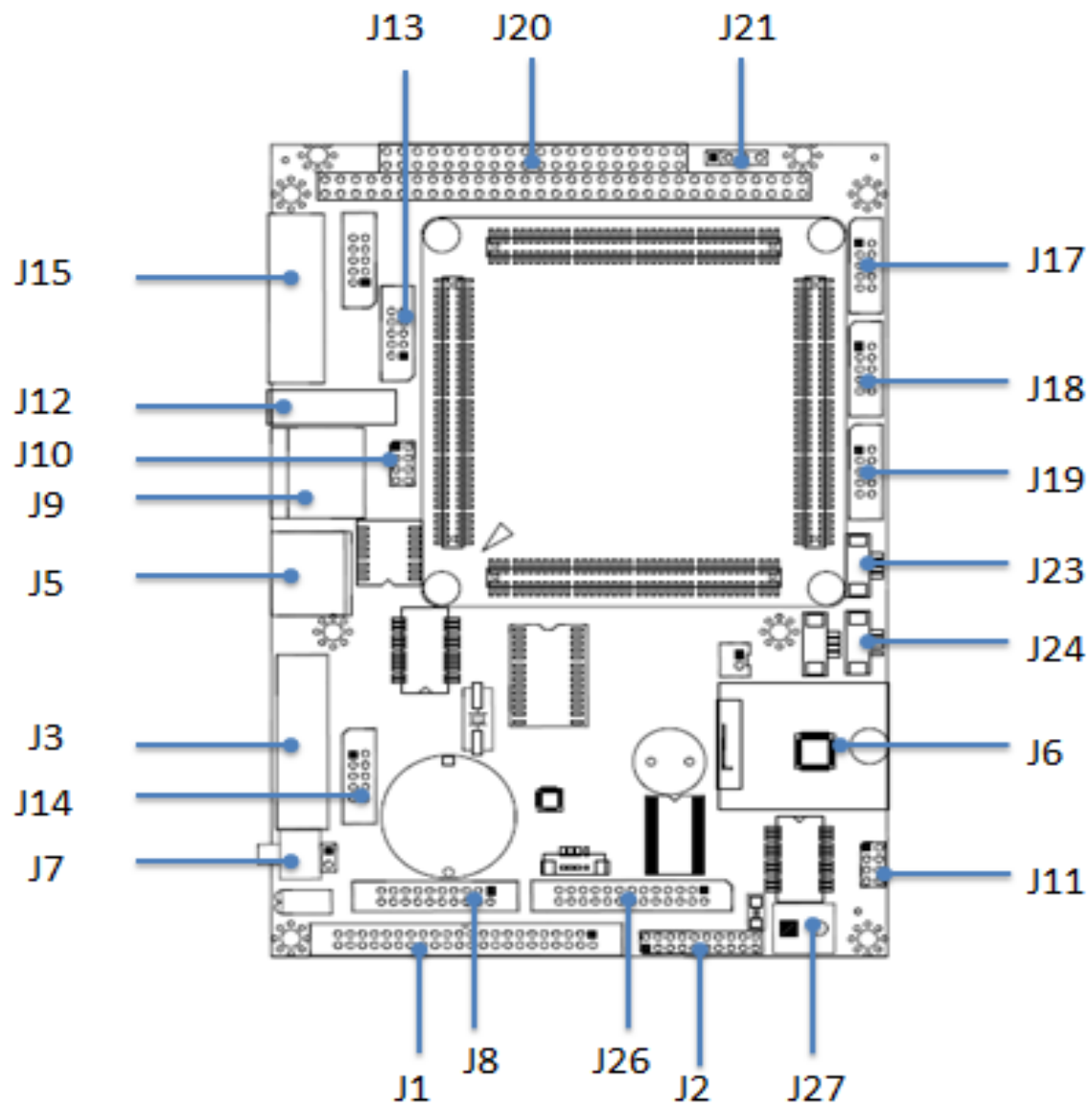
2.2 Board Outline



Note:

1. RS232/485 is selected by BIOS.
2. USB4 hot SWAP is optional. When hot SWAP is enabled, USB4 will be disabled.
3. Touch screen is optional. If touch screen function is selected, onboard SPI ROM and PS/2 Mouse will be disabled.

2.3 Connector Location



2.4 Connector and Jumper Summary

Nbr.	Name	Type of Connections	Pin Nbr
J1	LCD	Box Header, 2.0mm, 22x2	44
J2	24-bit LVDS	Pin Header, 2.0mm, 10x2	20
J3	VGA	15-pin D-Sub Female	15
J4	SATA DOM	SATA 7P Connector, 7x1	7
J5	PS/2 Keyboard/Mouse	Mini-DIN Female	6
J6	SATA DOM Power	Box Header, 2.0mm, 1x2	2
J7	Reset	Pin Header, 2.54mm, 1x2	2
J8	GPIO (Port0/1)	Box Header, 2.0mm, 10x2	20
J9	LAN1 (10/100/1000 Ethernet)	RJ45 Connector	8
J10	LAN2 (10/100 Ethernet)	Pin Header, 2.0mm, 4x2	8
J11	LAN3 (10/100/1000 Ethernet)	Pin Header, 2.0mm, 4x2	8
J12	USB2	Type A USB Connector	4
J13	USB0&1	Box Header, 2.0mm, 5x2	10
J14	USB3&4 (Optional: USB4 hot SAWP)	Box Header, 2.0mm, 5x2	10
J15	COM1 (RS232/485 or optional TTL/P4)	D-Sub Male	9
J17	COM2 (RS232/485 or optional TTL/P4)	Box Header, 2.0mm, 5x2	10
J18	COM3 (RS232/485 or optional TTL/P4)	Box Header, 2.0mm, 5x2	10
J19	COM4 (RS232/485 or optional TTL/P4)	Box Header, 2.0mm, 5x2	10
J20A	PC104 Connector – 64 pin	Box Header, 2.54mm, 32x2	64
J28B	PC104 Connector – 40 pin	Box Header, 2.54mm, 20x2	40
J21	4P Power Source (Interconnect to PC/104 –J20)	Pin Header, 2.54mm, 4x1	4
J23	Line-Out	Wafer, 1.25mm, 4x1	4
J24	MIC-In	Wafer, 1.25mm, 4x1	4
J25	Touch Screen (Optional)	Wafer, 1.25mm, 4x1	4
J26	Print	Box Header, 2.0mm, 13x2	26
J27	Power Connector	Terminal Block, 5.0mm, 2x1	2
PWER LED	Power Active LED(Red)	LED-SMD	
LED3	LAN Link/ Active LED(Green)	LED-SMD	
LED4	LAN Duplex LED(Yellow)	LED-SMD	
SP1	Buzzer		

2.5 Pin Assignments & Jumper Settings

J1: LCD Connector

Pin#	Single Name	Pin #	Single Name
1.	+3.3V	2	+3.3V
3	LG2	4	LG3
5	LG4	6	LG5
7	NC	8	NC
9	LR0	10	LR1
11	LR2	12	LR3
13	LR4	14	LR5
15	GND	16	NC
17	NC	18	NC
19	NC	20	GND
21	NC	22	NC
23	LB0	24	LB1
25	LB2	26	LB3
27	LB4	28	LB5
29	NC	30	NC
31	LG0	32	LG1
33	GND	34	GND
35	NC	36	LCLK
37	NC	38	LDE
39	NC	40	LHSYNC
41	NC	42	LVSYSNC
43	LBACKL	44	LVDDEN

(Please refer to Appendix A, for TFT Flat Data Output)

J2: 24-bit LVDS

Pin#	Single Name	Pin #	Single Name
1.	VCC3(3.3V)	2	VCC3(3.3V)
3	GND	4	GND
5	RxIN0+	6	RxIN0-
7	RxIN1-	8	GND
9	GND	10	RxIN1+
11	RxIN2+	12	RxIN2+
13	CKIN-	14	GND
15	GND	16	CKIN+
17	RxIN3-	18	GND
19	GND	20	RxIN3+

J3: VGA

Pin#	Single Name	Pin #	Single Name
1.	R OUT	2	G OUT
3	B OUT	4	NC
5	GND	6	GND
7	GND	8	GND
9	NC	10	GND
11	NC	12	DDCDAT
13	HSYNC	14	VSYSNC
15	DDCLK		

J4: SATA DOM

Pin#	Single Name	Pin #	Single Name
1.	GND	2	TX+
3	TX-	4	GND
5	RX-	6	RX+
7	GND		

J5: PS2/Keyboard/Mouse

Pin#	Single Name	Pin #	Single Name
1.	KBCLK	2	MSCLK
3	GND	4	KBDAT
5	MSDAT	6	VCC
7	GGND	8	GGND
9	GGND		

J6: SATA DOM POWER

Pin#	Single Name	Pin #	Single Name
1.	VCC	2	GND

J7: REST

Pin#	Single Name	Pin #	Single Name
1.	RST_SW	2	GND

J8: GPIO (Port 0/1)

Pin#	Single Name	Pin #	Single Name
1.	GND	2	VCC
3	GP00	4	GP10
5	GP01	6	GP11
7	GP02	8	GP12
9	GP03	10	GP13
11	GP04	12	GP14
13	GP05	14	GP15
15	GP06	16	GP16
17	GP07	18	GP17
19	VCC	20	GND

J9: LAN 1 (RJ45)

Pin#	Single Name	Pin #	Single Name
1.	GTX+	2	GTX-
3	GRX+	4	GTXC+
5	GTXC-	6	GRX-
7	GRXD+	8	GRXD-

J10: LAN 2

Pin#	Single Name	Pin #	Single Name
1.	ATX+	2	ATX-
3	ARX+	4	LED00
5	LED0+	6	ARX-
7	LED1+	8	LED1

J11: LAN 3

Pin#	Single Name	Pin #	Single Name
1.	GTX+1	2	GTX-1
3	GRX+1	4	GTXC+1
5	GTXC-1	6	GRX-1
7	GRXD+1	8	GRXD-1

J12: USB2

Pin#	Single Name	Pin #	Single Name
1	VCC	2	LUSBD2-
3	LUSBD2+	4	GND
5	GGND	6	GGND
7	GGND	8	GGND

J13: USB0&1

Pin#	Single Name	Pin #	Single Name
1	VCC	2	VCC
3	LUSBD0-	4	LUSBD1-
5	LUSBD0+	6	LUSBD1+
7	GND	8	GND
9	GGND	10	GGND

J14: USB3&4 (Optional: USB 4 hot SAWP)

Pin#	Single Name	Pin #	Single Name
1	VCC	2	VCC
3	LUSBD3-	4	LUSBD4-
5	LUSBD3+	6	LUSBD4+
7	GND	8	GND
9	GGND	10	GGND

****USB4 is disabled when DOS USB hot swap is not selected.**

J15: COM1 (RS232/485 or optional TTL/P4)

Pin#	Single Name	Pin #	Single Name
1	DCD1/1RS485-	2	RXD1/1RS485+
3	TXD1	4	DTR1
5	GND	6	DSR1
7	RTS1	8	CTS1
9	RI1	10	NC

J17: COM2 (RS232/485 or optional TTL/P5)

Pin#	Single Name	Pin #	Single Name
1	DCD2/2RS485-	2	RXD2/2RS485+
3	TXD2	4	DTR2
5	GND	6	DSR2
7	RTS2	8	CTS2
9	RI2	10	NC

J18: COM3 (RS232/485 or optional TTL/P6)

Pin#	Single Name	Pin #	Single Name
1	DCD3/3RS485-	2	RXD3/3RS485+
3	TXD3	4	DTR3
5	GND	6	DSR3
7	RTS3	8	CTS3
9	RI3	10	NC

J18: COM4 (RS232/485 or optional TTL/P7)

Pin#	Single Name	Pin #	Single Name
1	DCD4/4RS485-	2	RXD4/4RS485+
3	TXD4	4	DTR4
5	GND	6	DSR4
7	RTS4	8	CTS4

J20A: PC/104 Connector – 64 pin

Pin#	Single Name	Pin #	Single Name
1.	IOCHCHK*	2	GND
3	SD7	4	RESETDRV
5	SD6	6	VCC
7	SD5	8	IRQ9
9	SD4	10	-5V
11	SD3	12	RDQ2
13	SD2	14	-12V
15	SD1	16	OWS
17	SD0	18	+12V
19	IOCHRDY	20	GND
21	AEN	22	SMEMW*
23	SA19	24	SMEMR*
25	SA18	26	IOW*
27	SA17	28	IOR*
29	SA16	30	DACK3*
31	SA15	32	DRQ3
33	SA14	34	DACK1*
35	SA13	36	DRQ1*
37	SA12	38	REFRESH*
39	SA11	40	SYSCLK
41	SA10	42	IRQ7
43	SA9	44	IRQ6
45	SA8	46	IRQ5
47	SA7	48	IRQ4
49	SA6	50	IRQ3
51	SA5	52	DACK2*
53	SA4	54	TC
55	SA3	56	BALE
57	SA2	58	VCC
59	SA1	60	OSC
61	SA0	62	GND
63	GND	64	GND

J20B: PC/104 Connector – 40 pin

Pin#	Single Name	Pin #	Single Name
1.	GND	2	GND
3	MEMCS16*	4	SBHE*
5	IOCS16*	6	SA23
7	IRQ10	8	SA22
9	IRQ11	10	SA21
11	IRQ12	12	SA20
13	IRQ15	14	SA19
15	IRQ14	16	SA18
17	DACK0*	18	SA17
19	DRQ0	20	MEMR*
21	DACK5*	22	MEMW*
23	DRQ5	24	SD8
25	DACK6*	26	SD9
27	DRQ6	28	SD10
29	DACK7	30	SD11
31	DRQ7	32	SD12
33	VCC	34	SD13
35	MASTER*	36	SD14
37	GND	38	SD15
39	GND	40	NC

J21: 4P Power Source (Interconnect to PC/104 J20)

Pin#	Single Name
1.	-5V
2	-12V
3	+12V
4	GND

J23: Line-Out

Pin#	Single Name
1.	LOUTR
2	GND
3	GND
4	LOUTL

J24: MIC-In

Pin#	Single Name
1.	MICVREF
2	GND
3	GND
4	MIC-IN

J25: Touch Screen (Optional)

Pin#	Single Name
1.	Y-
2	X-
3	Y+
4	X+

**Onboard SPI ROM won't be available when Touchscre function is selected.

J26: Print

Pin#	Single Name	Pin #	Single Name
1	STB-	14	AFD-
2	PD0	15	ERR-
3	PD1	16	INIT-
4	PD2	17	SLIN-
5	PD3	18	GND
6	PD4	19	GND
7	PD5	20	GND
8	PD6	21	GND
9	PD7	22	GND
10	ACK-	23	GND
11	BUSY	24	GND
12	PE	25	GND
13	SLCT	26	NC

J27: Power Connector

Pin#	Single Name
1.	+5V
2	GND

3 Software Resources

3.1 ICOP Technical Resource Website

In the following website, you will find our latest user manuals, including OS support resources systems such as evaluation images for Windows Embedded Compact 7, Windows Embedded CE 6.0, Windows Embedded CE 5.0, and Windows XP Embedded (Win XPe). For details, please kindly visit the following link: <http://tech.icop.com.tw/>

4 Technical support

4.1 Display Introduction

The VDX3-6726 offers two different interfaces which support maximum resolution up to 1920 x 1080 (@ 60MHz) connecting to VGA and 24-bit LVDS LCD Flat Panel.

4.2 BIOS Introduction

Featuring AMI BIOS, the VDX3-6726 module is a one stable module board for your applications. In this section, we will introduce you some basic AMI BIOS setting such as CPU speed adjusting, console redirection, and IDE configuration, etc.

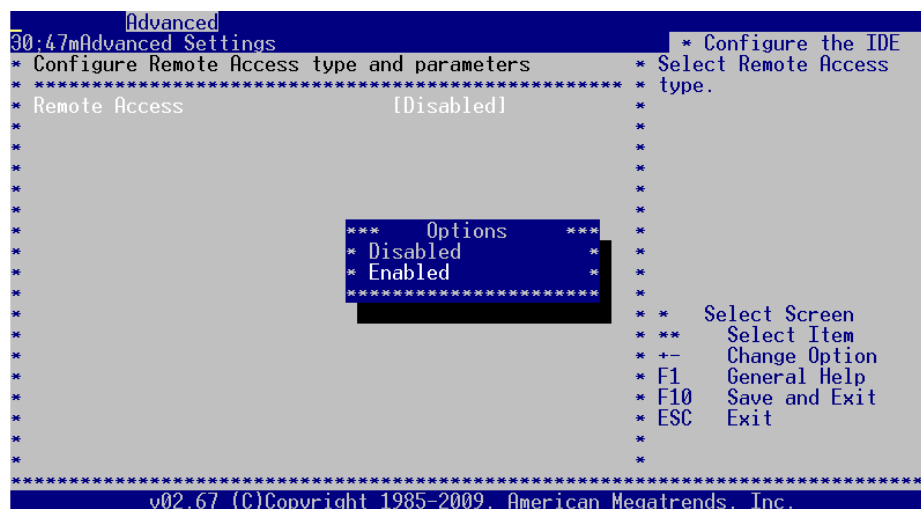
4.2.1 CPU Clock Adjusting

For CPU clock adjusting, please contact your contact window directly or mail info@icop.com.tw.

4.2.2 Console Direction

Access to computer board through serial port, you can work on VDX3-6726 without VGA display or monitor. The default access port is COM1 and disabled. If you would like to use this function, please go to the path below to enable Console Redirection.

Path: Advanced >Remote Access Configuration >Remote Access [Enabled]



4.2.3 Serial Ports Switching

Serial ports on VDX3-6726 are set RS232 as default. If you need RS485 be your default serial ports. Please contact your contact window directly or mail info@icop.com.tw. And you can refer to the below instruction to select the IRQ mode according to your demands.

Path: Advanced >Serial/Parallel Port Configuration

```

Advanced
*****
* SB Serial Port 1          [3F8]          * RDC Internal UART *
*   Serial Port IRQ 1      [IRQ4]          * Serial Port      *
*   Serial Port Boud Rate  [115200 BPS]    *                  *
* PWM & COM2 Pin Select    [SB Serial Port 2] *                  *
* SB Serial Port 2        [2F8]          *                  *
*   Serial Port IRQ 2      [IRQ3]          *                  *
*   Serial Port Boud Rate  [115200 BPS]    *                  *
* SB Serial Port 3        [3E8]          *                  *
*   Serial Port IRQ 3      [IRQ10]         *                  *
*   Serial Port Boud Rate  [115200 BPS]    *                  *
* SB Serial Port 4        [2E8]          *                  *
*   Serial Port IRQ 4      [IRQ11]         *                  *
*   Serial Port Boud Rate  [115200 BPS]    *                  *
* SB Parallel Port Address [378]          * * Select Screen  *
*   Parallel Port Mode     [EPP 1.7 AND SPP] * ** Select Item   *
*   Parallel Port IRQ      [IRQ7]          * +- Change Option *
*                               * F1 General Help  *
*                               * F10 Save and Exit *
*                               * ESC Exit          *
*                               *                  *
*****
v02.67 (C)Copyright 1985-2009, American Megatrends, Inc.

```

4.2.4 IDE Configuration

The default IDE configuration is for Windows Operating System, and the setting as below:

Onboard IDE Operate Mode: [Legacy Mode]
IDE Compatibility: [Disabled].

If you would like to use Linux on VDX3-6726, please follow below instructions:

Onboard IDE Operate Mode: [Native Mode]
IDE Compatibility: [Enabled].

Path of Onboard IDE Operate Mode:
Advanced >IDE Configuration >Onboard IDE Operate Mode
[Native Mode]

```

*****Advanced*****
* IDE Configuration                                     * ! Notice ! Native Mode *
* *****                                     * ONLY for Windows(R) XP *
* OnBoard PCI IDE Controller      [Secondary]          * and 2000.               *
* * Secondary IDE Master          : [Not Detected]     *                               *
* *                               *                               *
* Hard Disk Write Protect         [Disabled]           *                               *
* IDE Detect Time Out (Sec)       [35]                *                               *
* ATA(Pi) 80Pin Cable Detecti***** Options ***** *                               *
* Hard Disk Delay                 * Legacy Mode       * *                               *
* OnBoard IDE Operate Mode        * Native Mode       * *                               *
* SATA PHY Speed                 *****             *                               *
*                               *                               *
*                               * * Select Screen      *
*                               * * Select Item       *
*                               * * Change Option     *
*                               * * F1 General Help   *
*                               * * F10 Save and Exit *
*                               * * ESC Exit          *
*                               *                               *
*****
v02.67 (C)Copyright 1985-2009, American Megatrends, Inc.

```


4.2.5 Advanced Configuration

Two statuses for IRQ setting:

[Reserved]: IRQ will free to be allocated by PnP BIOS.

[Available]: IRQ will not free to be allocated by PnP BIOS.

Path: PCIPnP >IRQ

```

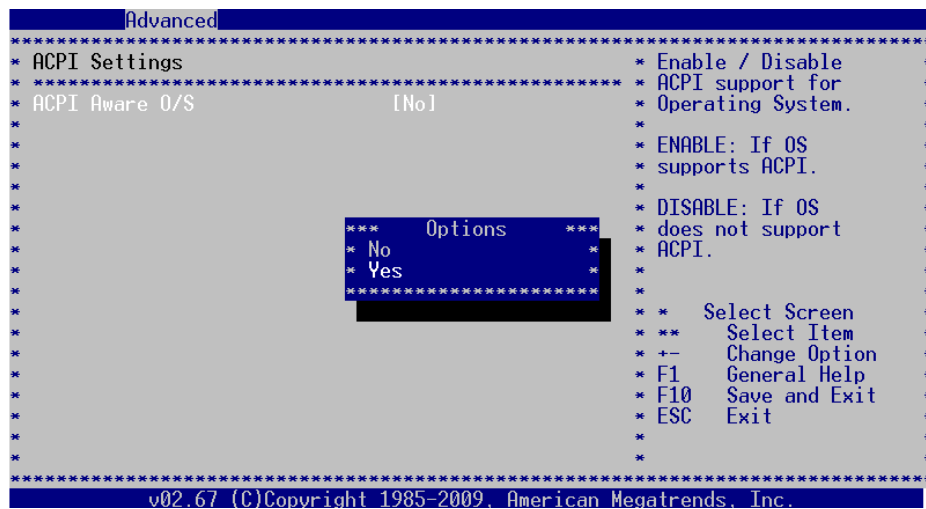
Main    Advanced  PCIPnP  Boot    Security  Exit
*****
* Advanced PCI/PnP Settings                               ** Available: Specified *
* *****                                                ** IRQ is available to be *
* WARNING: Setting wrong values in below sections      ** used by PCI/PnP      *
*               may cause system to malfunction.       ** devices.            *
* ** Reserved: Specified                                ** IRQ is reserved for  *
* ** use by L                                           ** use by L             *
* ** devices.                                           ** devices.            *
* Clear NVRAM                                           [No]                   **                               *
* Plug & Play O/S                                       [No]                   **                               *
* PCI Latency Timer                                     [64]                   **                               *
* Allocate IRQ to PCI VGA                             [Yes]                  **                               *
* Palette Snooping                                     [Disabled]             **                               *
* PCI IDE BusMaster                                    [Enabled]              **                               *
* **                                                    **                               *
* IRQ3                                                  [Reserved]             ** *   Select Screen    *
* IRQ4                                                  [Reserved]             ** **  Select Item      *
* IRQ5                                                  [Available]            ** +-  Change Option    *
* IRQ6                                                  [Available]            ** F1  General Help     *
* IRQ7                                                  [Available]            ** F10 Save and Exit    *
* IRQ9                                                  [Reserved]             ** ESC Exit            *
* IRQ10                                                 [Available]            **                               *
* IRQ11                                                 [Available]            **                               *
*****
v02.67 (C)Copyright 1985-2009, American Megatrends, Inc.

```

4.2.6 ACPI Enable

To install Windows 7 on ICOP computer boards, please enable ACPI as the following instruction.

Path: Advanced >Power Management Configuration > ACPI Configuration >ACPI Aware O/S



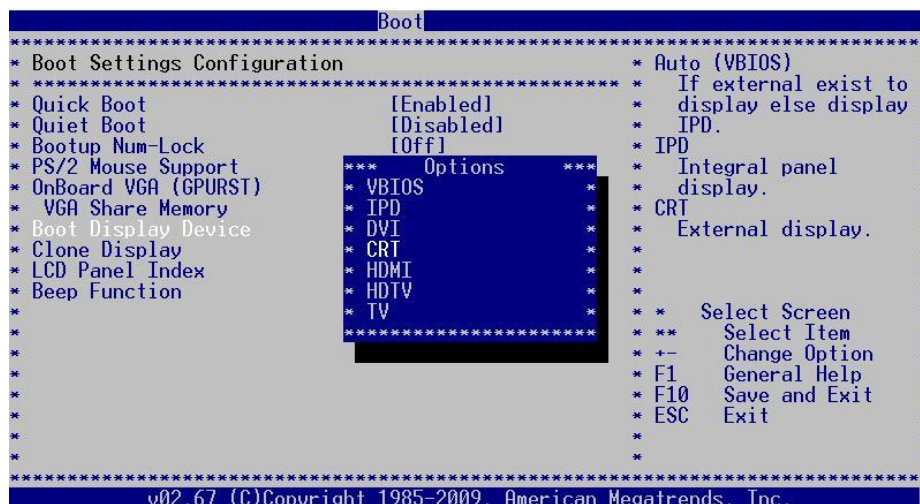
5 Basic LCD Panel Setting

5.1 Introduction

The VDX3-6726 offers two different interfaces which support maximum resolution up to 1920 x 1080 (at 60 MHz) connecting to VGA and LCD Flat Panel with 18-bit/24bit LVDS.

The default setting of **Boot Display Device [VBIOS]** and **LCD Panel Index [VBIOS]** with **Clone Display [ENBALED]** support dual display (LCD and VGA) on VDX3-6726.

If your VGA display shifts because of the above setting, please switch **Boot Display Device [VBIOS]** to **[CRT]** as the following image:



****Boot Display Device [VBIOS]:** LCD and VGA display supported with display setting based on your required LCD specification.

[CRT]: VGA display supported

5.2 Basic BIOS Setting for LCD

If you would like to use LCD panel with VDX3-6726, please follow below instruction:

Boot Display Device [VBIOS]

LCD Panel Index according to your LCD resolution from VBIOS to 5.

Options	Resolution of the LCD Panel
VBIOS	the Required LCD Specification
1	640 x 480
2	800 x 480
3	800 x 600
4	1024 x 600
5	1024 x 768

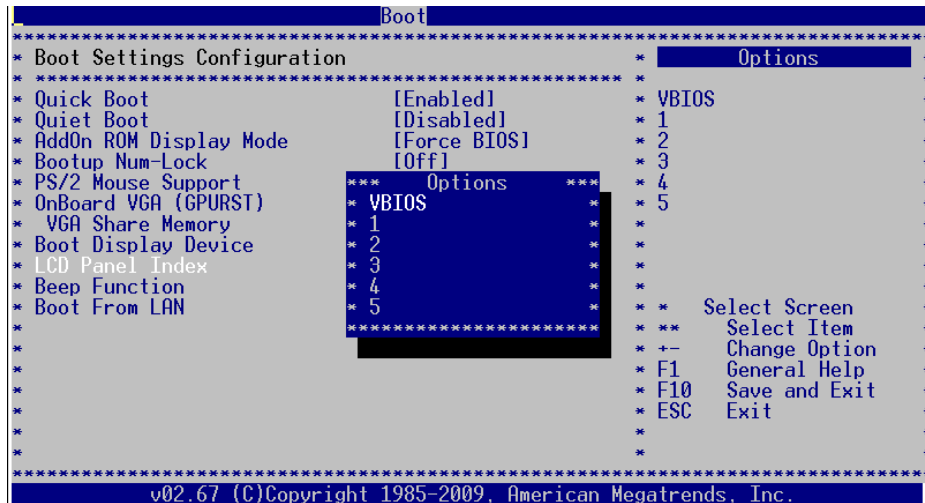
Path of Boot Display Device setting:

Boot > Boot Settings Configuration > Boot Display Device [VBIOS]



Path of LCD Panel Index setting:

Boot >Boot Settings Configuration >LCD Panel Index []



***The [VBIOS] difference between **Boot Display Device** and **LCD Panel Index**:

Boot Display Device [VBIOS]: Display Output Setting

LCD Panel Index [VBIOS]: Display Resolution Setting

Technical Support Directly from ICOP

To offer you more accurate and specific solutions for the technical situations you have, please prepare the information below before contacting ICOP:

- Product name and serial number
- Description of the H/W environment (i.e.: working temperature, I/O board information, information of connection between main board and IO boards, and/or other devices, etc)
- Description of the S/W environment (i.e: operating system, version, application software, and/or other related information, etc.)
- A detailed description and photos of the technical situation
- Any complement or technical situations you want ICOP more focusing on

User Manual Feedback

To make this user manual more complete, if you have any comments or feedbacks to this manual, please feel free to write to info@icop.com.tw or contact your ICOP sales representative.

Warranty

This product is warranted to be in good working order for a period of one year (12 months) from the date of purchase. Should this product fail to be in good working order at any time during this period, we will, at our option, replace or repair it without additional charge except as set forth in the following terms. This warranty does not apply to products damaged by misuse, modifications, accident or disaster. Vendor assumes no liability for any damages, lost profits, lost savings or any other incidental or consequential damage resulting from the use, misuse of, originality to use this product. Vendor will not be liable for any claim made by any other related party. Return authorization must be obtained from the vendor before returned merchandise is accepted. Authorization can be obtained by calling or faxing the vendor and requesting a Return Merchandise Authorization (RMA) number. Returned goods should always be accompanied by a clear problem description. Should you have questions about warranty and RMA service, please contact us directly.

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