

USER

MANUAL

MP-4815

15" 2nd Display

MP-4815 M1

MP-4815 15” 2nd Display

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DISCLAIMER

This user’s manual is meant to assist users in installing and setting up the system. The information contained in this document is subject to change without any notice.


CE NOTICE


This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void your authority to operate such equipment.

	<p>CAUTION: Danger of explosion may occur when the battery is incorrectly replaced. Replace the battery only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.</p>
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	<p>WARNING: Some internal parts of the system may have high electrical voltage. We strongly recommend that only qualified engineers are allowed to service and disassemble the system. If any damages should occur on the system and are caused by unauthorized servicing, it will not be covered by the product warranty. Please operate the LCD and Touchscreen with extra care as they can break easily.</p>
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Revision History

The revision history of MP-4815 User Manual is described below:

Version No.	Revision History	Page No.	Date
M1	Initial Release	-	2017/09/21

1

Introduction

This chapter provides the introduction for the MP-4815 system as well as the framework of the user manual.

The following topic is included:

- About This Manual

1.1 About This Manual

Thank you for purchasing our MP-4815 system. The MP-4815 is an updated system designed to be comparable with the highest performance of IBM AT personal computers. The MP-4815 provides faster processing speed, greater expandability and can handle more tasks than before. This manual is designed to assist you how to install and set up the whole system. It contains 3 chapters and 1 appendix. Users can configure the system according to their own needs. This user manual is intended for service personnel with strong hardware background. It is not intended for general users.

The following section describes the structure of this user manual.

Chapter 1 Introduction

This chapter introduces the framework of this user manual.

Chapter 2 Getting Started

This chapter describes the package contents and system specifications, and illustrates the physical appearances for the MP-4815 system. Read the safety reminders carefully on how to take care of your system properly.

Chapter 3 System Configuration

This chapter describes the locations and functions of the system A/D board and daughter board components. You will learn how to properly configure the connectors and system configuration jumpers on the A/D board and daughter board and configure the system to meet your own needs.

Appendix A System Assembly Diagrams

This appendix provides the exploded diagrams and part numbers of the MP-4815.

2 Getting Started

This chapter provides the information for the MP-4815 system. It describes the physical appearances of MP-4815 2nd display combined with different POS systems (PA-6225, PA-6322, PA-6722 and PA-6980) as well as outlines the system specifications.

The following topics are included:

- Package List
- System Overview
- System Diagrams
- System Specification
- Safety Precautions

Experienced users can go to Chapter 3 System Configuration on page 3-1 for a quick start.

2.1 Package List

If you discover any of the items listed below are damaged or lost, please contact your local distributor immediately.

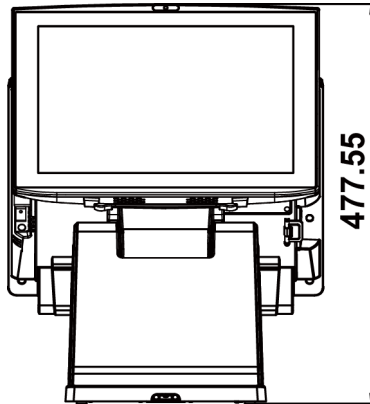
Item	Q'ty
MP-4815	1
Quick Reference Guide	1
User Manual DVD	1
MP-4815 EPE Right	1
MP-4815 EPE Left	1

2.2 System Overview

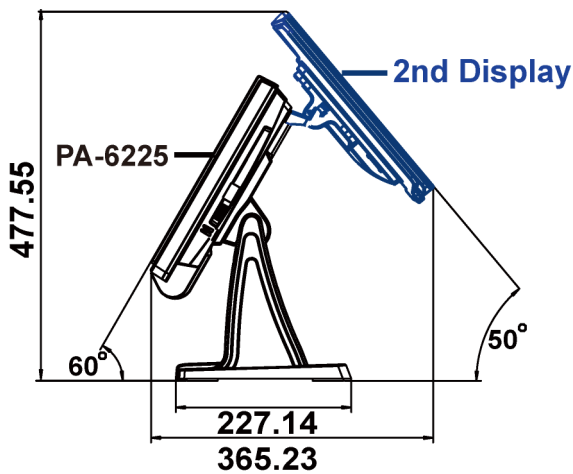
Unit: mm

2.2.1 MP-4815 2nd Display and PA-6225

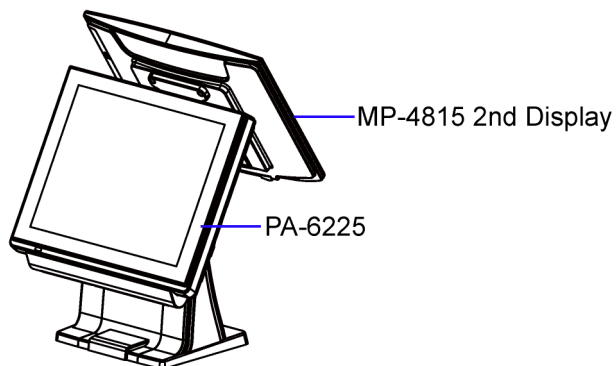
2.2.1.1 Front View



2.2.1.2 Side View

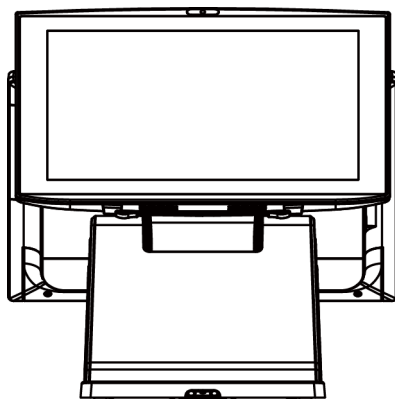


2.2.1.3 Quarter View

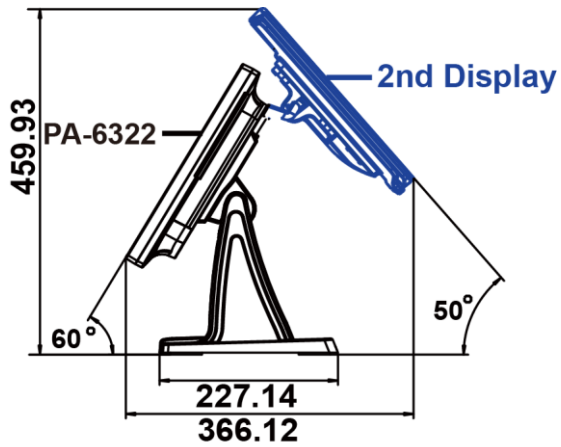


2.2.2 MP-4815 2nd Display and PA-6322

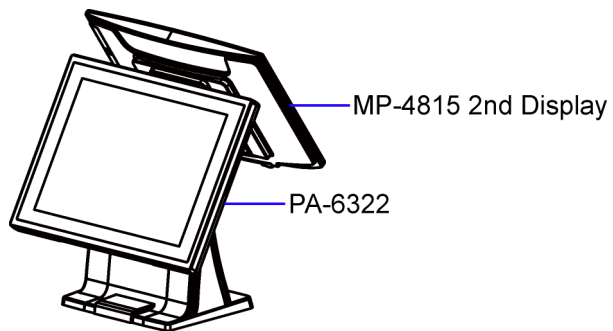
2.2.2.1 Front View



2.2.2.2 Side View

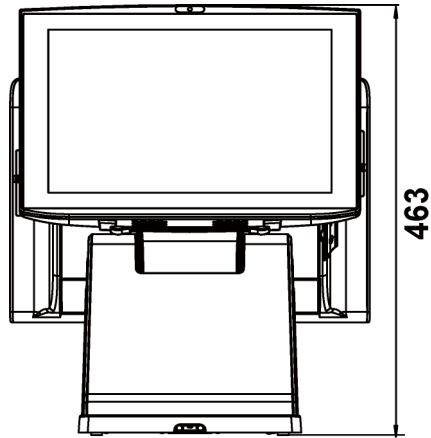


2.2.2.3 Quarter View

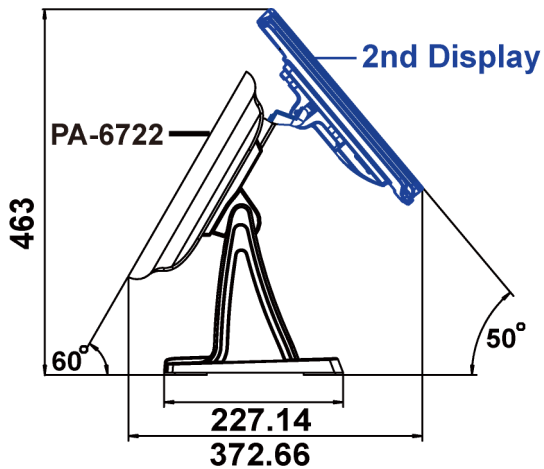


2.2.3 MP-4815 2nd Display and PA-6722

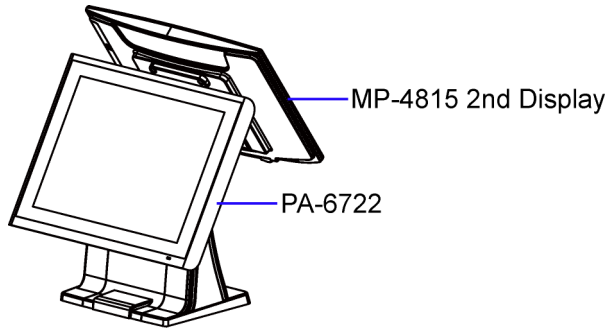
2.2.3.1 Front View



2.2.3.2 Side View

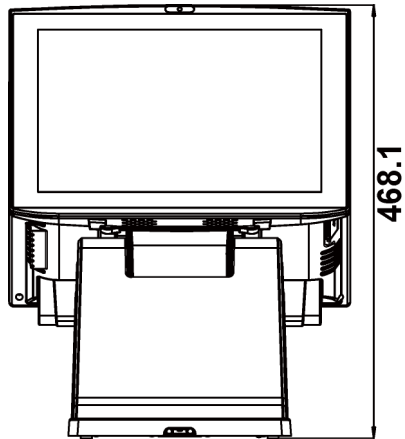


2.2.3.3 Quarter View

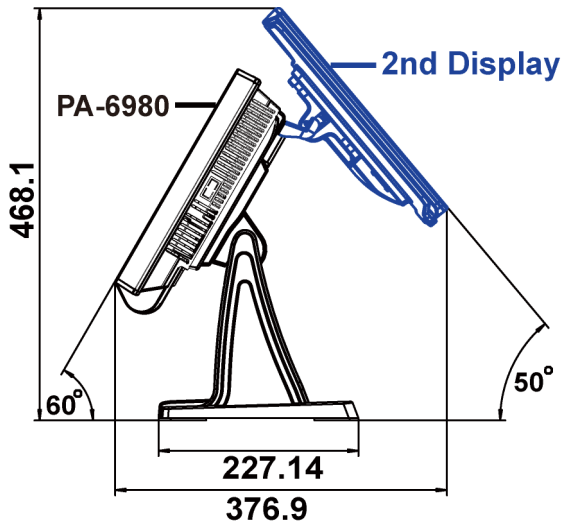


2.2.4 MP-4815 2nd Display and PA-6980

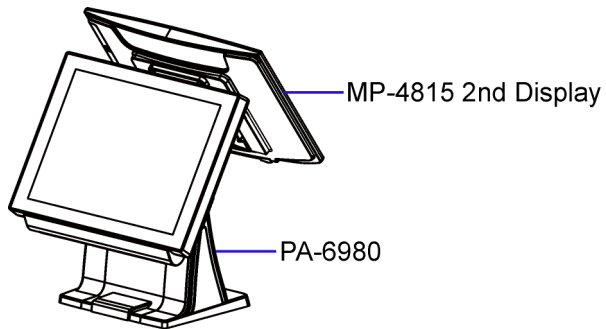
2.2.4.1 Front View



2.2.4.2 Side View



2.2.4.3 Quarter View



2.3 System Specifications

2nd Display	
Display	➤ 15-inch LCD panel
Resolution	➤ LVDS 1024x768 dots XGA (24-bit)
Brightness	➤ Typ. 300 cd/m ²
Backlight Lampe	➤ Life time: min. 50,000 hours
Touch Panel	➤ P-CAP touch (Bezel free) or Resistive Touch
Touch Control Board	➤ Only for 15-inch Resistive Touch Panel (USB I/F)
Speaker	➤ 3W+3W @4 ohm speaker
Power Supply	➤ DC12V/3.33A/ 40W Power Adapter, 90 ~240 Vac, 50/60Hz
Wall Mount	➤ VESA Mount 100x100 mm
Dimension (WxHxD)	➤ 367 x 300 x 38 mm
Weight	➤ MP-4815 2nd Display: 3.1 kg
	➤ MP-4815 2nd Display + PA-6225: 12.6 kg
	➤ MP-4815 2nd Display + PA-6322: 11 kg
	➤ MP-4815 2nd Display + PA-6722: 11 kg
Certificate	➤ MP-4815 2nd Display + PA-6980: 13 kg
	➤ CE
Rear I/O Ports	
DC IN	➤ 1 x DC-IN port
USB	➤ 1 x USB 2.0 port, Type B (downstream)
VGA	➤ 1 x VGA port
Optional Integrated Module	
Module Mounting	➤ Provides mounting holes on right side to fix other devices
Optional Integrated Device	
Camera	➤ Camera module (USB Interface)
Environment	
Operating Temp.	➤ 0°C ~ 40°C (32°F ~ 104°F)
Storage Temp.	➤ -20° C ~ 60° C (-4°F ~ 140°F)
Humidity	➤ 10%~ 90%

2.4 Safety Precautions

Before operating this system, read the following information carefully to protect your systems from damages, and extend the life cycle of the system.

1. Check the Line Voltage
 - The operating voltage for the power supply should be within the range of 100V to 240V AC; otherwise the system may be damaged.
2. Environmental Conditions
 - Place your MP-4815 on a sturdy, level surface. Be sure to allow enough space around the system to have easy access needs.
 - Avoid installing your MP-4815 system in extremely hot or cold places.
 - Avoid direct sunlight exposure for a long period of time (for example, in a closed car in summer time. Also avoid the system from any heating device.). Or do not use MP-4815 when it has been left outdoors in a cold winter day.
 - Avoid moving the system rapidly from a hot place to a cold place, and vice versa, because condensation may occur inside the system.
 - Protect your MP-4815 from strong vibrations which may cause hard disk failure.
 - Do not place the system too close to any radio-active device. Radio-active device may cause signal interference.
 - Always shut down the operating system before turning off the power.
3. Handling
 - Avoid placing heavy objects on the top of the system.
 - Do not turn the system upside down. This may cause the hard drive to malfunction.
 - Do not allow any objects to fall into this device.
 - If water or other liquid spills into the device, unplug the power cord immediately.
4. Good Care
 - When the outside case gets stained, remove the stains using neutral washing agent with a dry cloth.
 - Never use strong agents such as benzene and thinner to clean the surface of the case.
 - If heavy stains are present, moisten a cloth with diluted neutral washing agent or alcohol and then wipe thoroughly with a dry cloth.
 - If dust is accumulated on the case surface, remove it by using a special vacuum cleaner for computers.

3

System Configuration

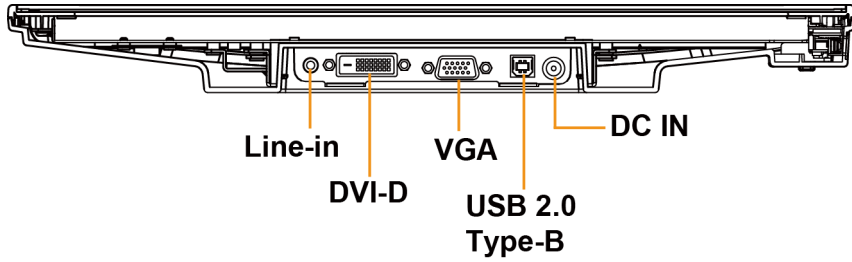
This chapter contains helpful information about the system external I/O Ports diagram, and jumper & connector settings, and component locations for both the A/D board and daughter board.

The following topics are included:

- System External I/O Ports Diagrams
- System A/D Board Component Locations
- How to Set Jumpers
- Setting A/D Board Connectors and Jumpers
- Daughter Board Component Locations
- Setting Daughter Board Jumpers and Connectors

3.1 System External I/O Ports Diagrams

3.1.1 Rear I/O Ports Diagram



3.2 JUMPER & CONNECTOR QUICK REFERENCE TABLE

JUMPER Description	NAME
Backlight Adjustment Mode Selection	J1
Panel Power Supply Selection	J2
Panel Firmware Selection	J3

System CONNECTOR Description	NAME
DC +12V Input Connector	CN9
DC +12V Input Jack	DC1
USB Hub Up-Stream Connector	J4
VGA Input Jack	P1
Audio Speaker Out Connector	CN10
USB Hub Down-Stream Connector	CN7, CN8, CN11, CN12
C_Touch Key Pad Connector	CN3
OSD Keypad Connector	CN5
LVDS Connector For Dual Channels	CN4
LVDS Connector For Single Channel	CN2
Inverter Connector	CN1

3.3 Component Locations of System A/D BOARD and Daughter Board

3.3.1 Top View of MP-4815 A/D Board

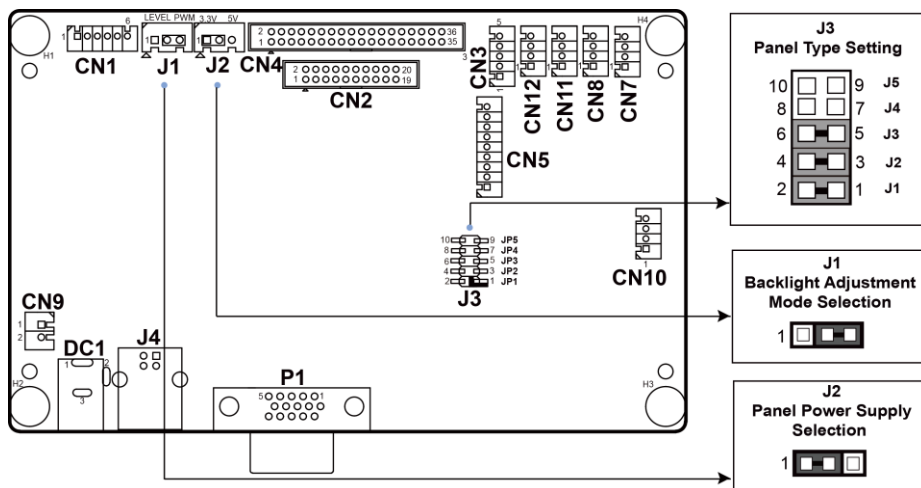





Figure 3-1. MP-4815 A/D Board Component Location (Top View)

	<p>WARNING: Always disconnect the power cord when you are working with connectors and jumpers on the main board. Make sure both the system and peripheral devices are turned OFF as sudden surge of power could damage sensitive components. Make sure MP-4815 is properly grounded.</p>
	<p>CAUTION: Observe precautions while handling electrostatic sensitive components. Make sure to ground yourself to prevent static charge while you are working on the connectors and jumpers. Use a grounding wrist strap and place all electronic components in any static-shielded devices.</p>
	<p>CAUTION: Always touch the A/D board components by the edges. Never touch components such as a processor by its pins. Take special cares while you are holding electronic circuit boards by the edges only. Do not touch the A/D board components.</p>

3.3.2 Bottom View of MP-4815 A/D Board

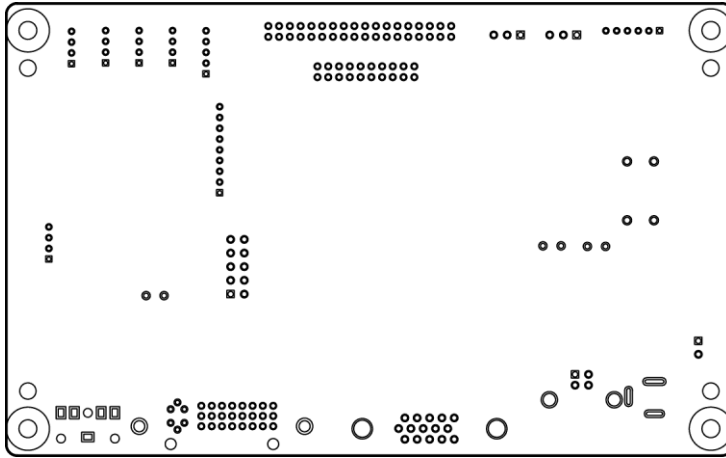


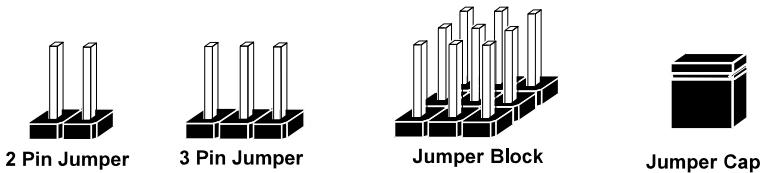
Figure 3-2. MP-4815 A/D Board Component Location (Rear View)

3.4 HOW TO SET JUMPERS

You can configure your board by setting the jumpers. A jumper consists of two or three metal pins with a plastic base mounted on the card. By using a small plastic "cap", also known as the jumper cap (with a metal contact inside), you are able to connect the pins. So you can configure your hardware settings by "opening" or "closing" jumpers.

Jumpers can be combined into sets that are called jumper blocks. When jumpers are all in the block, you have to put them together to set up the hardware configuration. The figure below shows what this looks like.

Jumpers & Caps

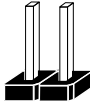


If a jumper has three pins, for example, labeled 1, 2 and 3. You can connect pins 1 and 2 to create one setting and shorting. You can also select to connect pins 2 and 3 to create another setting. The format of the jumper picture will be illustrated throughout this manual. The figure below shows different types of jumpers and jumper settings.

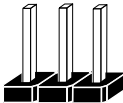
Jumper diagrams



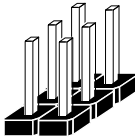
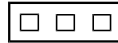
Jumper Cap looks like this



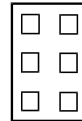
2 pin Jumper looks like this



3 pin Jumper looks like this



Jumper Block looks like this



Jumper settings

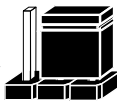


1

2 pin Jumper closed(enabled)
looks like this



1



1

3 pin Jumper
2-3 pin closed(enabled)
looks like this

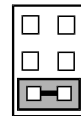


1



1 2

Jumper Block
1-2 pin closed(enabled)
looks like this



1 2

3.5 Setting A/D Board Connectors and Jumpers

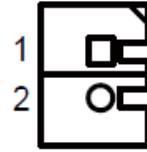
3.5.1 DC +12V Input Connector (CN9)

Connector Location: CN9

Description: DC +12V Input Connector

Pin outs (2 PIN WAFER PITCH 2.5mm 180D)

PIN	ASSIGNMENT
1	GND
2	+12V

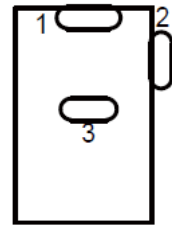


CN9

3.5.2 DC +12V Input Jack (DC1)

Connector Location: DC1

Description: DC Power connector 2.5 mm



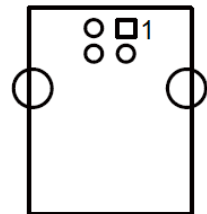
DC1

3.5.3 USB Hub Up-Stream Connector (J4)

Connector Location: J4

Description: USB Hub Up-Stream Connector

PIN	ASSIGNMENT
1	VCC +5V
2	DATA-
3	DATA+
4	GND



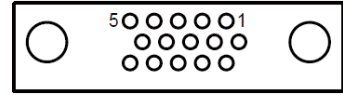
J4

3.5.4 VGA Input Jack (P1)

Connector Location: P1

Description: VGA Input Jack

Pin outs (Standard D-SUB VGA connector)



P1

PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	RED IN	9	NC
2	GREEN IN	10	VGA DET
3	BLUE IN	11	GND
4	GND	12	SDA_DDC
5	GND	13	SYNC.H
6	GND	14	SYNC.V
7	GND	15	SCL_DDC
8	GND	-	-

3.5.5 Audio Speaker Out Connector (CN10)

Connector Location: CN10

Description: Audio Speaker Out Connector

Pin outs (4 PIN WAFER PITCH 2.0mm 180D)



1

CN10

PIN	ASSIGNMENT
1	R+
2	R-
3	L-
4	L+

3.5.6 USB Hub Down-Stream Connector (CN7, CN8, CN11, CN12)

Connector Location: CN7, CN8, CN11, CN12

Description: USB Hub Down-Stream Connector

Pin outs (4 PIN WAFER PITCH 2.0mm 180D)

PIN	ASSIGNMENT
1	VCC +5V
2	DATA-
3	DATA+
4	GND



CN7/

CN8/

CB11/

CN12

3.5.7 C_Touch Key Pad Connector (CN3)

Connector Location: CN3

Description: C_Touch Key Pad Connector

Pin outs (5 PIN WAFER PITCH 2.0mm 180D)

PIN	ASSIGNMENT
1	IIC SDA
2	IIC SCL
3	VCC +3.3V
4	Alert in
5	GND



CN3

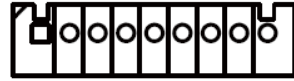
3.5.8 OSD Keypad Connector (CN5)

Connector Location: CN5

Description: OSD Keypad Connector

Pin outs (9 PIN WAFER PITCH 2.0mm 180D)

PIN	ASSIGNMENT
1	LED_O
2	VCC +5V
3	LED_G
4	MENU KEY
5	ADJ- KEY
6	ADJ+ KEY
7	AUTO KEY
8	POWER KEY
9	GND



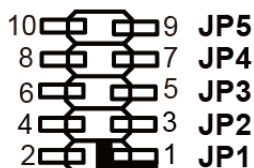
CN5

3.5.9 Panel / Firmware Selection Jumper (J3)

Jumper Name: J3

Description: Panel / Firmware Selection Jumper

Pin outs (5*2 PITCH HEADER 2.54mm 180D)

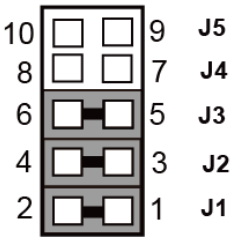


J3

SEL 1	SEL 2	SEL 3	PANEL
ON	ON	ON	INNOLUX G150XGA L05
X	ON	ON	AUO G121SN01 V4
ON	X	ON	AUO G121XN01 V0
X	X	ON	AUO G150XG01 V4
ON	ON	X	MITSUBISHI AC121SA01
X	ON	X	MITSUBISHI AC150XA02
ON	X	X	CMO G121X1-L04 V2.0
X	X	X	AUO G150XG03 V3

SEL 4	SEL 5	Firmware Description
ON	ON	TBD
X	ON	TBD
ON	X	TBD
X	X	<ol style="list-style-type: none"> The Green / Red LED indicator will be ON when the system is turned on. The Green LED indicator will be ON when the monitor is detected. The panel model number that is being used is indicated on the bottom of OSD (On-Screen Display) menu. The firmware version V01P is indicated on the lower-right corner of OSD Menu.

J3 Jumper Setting is shown below:

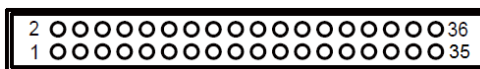
SELECTION	JUMPER SETTING	JUMPER SETTING ILLUSTRATION
<p>Panel Type Setting</p>	<p>J1: 1-2 J2: 3-4 J3: 5-6</p>	 <p style="text-align: center;">J3</p>

3.5.10 LVDS Connector For Dual Channels (CN4)

Jumper Name: CN4

Description: LVDS Connector For Dual Channels

Pin outs (2*18 PIN BOX HEADER WAFER PITCH 2.0mm 180D)



CN4

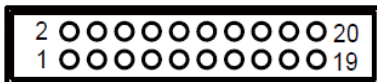
PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	VCC	19	LVDS RXE_2-
2	VCC	20	LVDS RXO_2+
3	GND	21	LVDS RXE_2+
4	GND	22	LVDS RXO_2-
5	GND	23	GND
6	GND	24	GND
7	LVDS RXE_0-	25	LVDS RXE_3-
8	LVDS RXO_0+	26	LVDS RXO_3+
9	LVDS RXE_0+	27	LVDS RXE_3+
10	LVDS RXO_0-	28	LVDS RXO_3-
11	GND	29	GND
12	GND	30	GND
13	LVDS RXE_1-	31	LVDS RXE_CLK-
14	LVDS RXO_1+	32	LVDS RXO_CLK+
15	LVDS RXE_1+	33	LVDS RXE_CLK+
16	LVDS RXO_1-	34	LVDS RXO_CLK-
17	GND	35	GND
18	GND	36	GND

3.5.11 LVDS Connector For Single Channel (CN2)

Jumper Name: CN2

Description: LVDS Connector For Single Channel

Pin outs (2*10 PIN BOX HEADER WAFER PITCH 2.0mm 180D)



CN2

PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	VCC	11	RxE2-
2	VCC	12	RxE2+
3	GND	13	GND
4	GND	14	RxEC-
5	RxE0-	15	RxEC+
6	RxE0+	16	GND
7	GND	17	RxE3-
8	RxE1-	18	RxE3+
9	RxE1+	19	GND
10	GND	20	GND

3.5.12 Panel Power Supply Selection (J2)

Jumper Name: J2

Description: Panel Power Supply Selection
Pin outs (6 PIN WAFER PITCH 2.54mm 90D)

Pin 1 & 2	Pin 2 & 3	MODE
ON	X	3.3V
X	ON	5V



J2

J2 Jumper Setting is shown below:

SELECTION	JUMPER SETTING	JUMPER SETTING ILLUSTRATION
Panel Power Supply Selection	1-2	<p>J2</p>

3.5.13 Backlight Adjustment Mode Selection (J1)

Jumper Name: J1

Description: Backlight Adjustment Mode Selection

Pin outs (6 PIN WAFER PITCH 2.54mm 90D)

Pin 1 &2	Pin 2 & 3	MODE
ON	X	LEVEL
X	ON	PWM



J1

J2 Jumper Setting is described below:

SELECTION	JUMPER SETTING	JUMPER SETTING ILLUSTRATION
Backlight Adjustment Mode Selection	2-3	<p>J1</p>

3.5.14 Inverter Connector (CN1)

Connector Location: CN1

Description: Inverter Connector

Pin outs (6 PIN WAFER PITCH 2.0mm 180D)

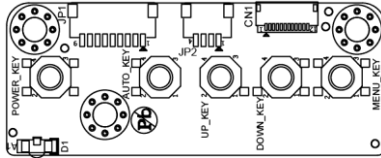
PIN	ASSIGNMENT
1	GND
2	GND
3	BACK LIGHT ADJUST
4	BACK LIGHT ON/Off
5	VCC +12V
6	VCC +12V



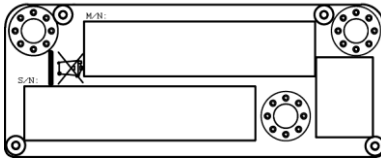
CN1

3.6 MP-4815 Daughter Board Component Locations

3.6.1 Top View of MP-4815 Daughter Board



3.6.2 Bottom View of MP-4815 Daughter Board



3.7 Daughter Board CONNECTOR QUICK REFERENCE TABLE

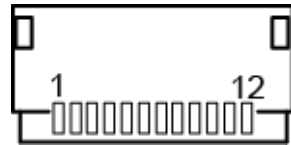
CONNECTOR Description	NAME
Barcode FPC Connector	CN1
OSD Connector	JP1
USB for Barcode Connector	JP2

3.8 Setting Daughter Board Connector

3.8.1 Barcode FPC Connector

Connector Location: CN1

Description: Barcode FPC Connector (Dual Layers)



CN1

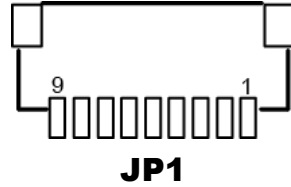
PIN	ASSIGNMENT
1	NC
2	VCC
3	GND
4	D-
5	NC
6	D+
7	NC
8	NC
9	NC
10	Buzzer
11	NC
12	NC

3.8.2 OSD Connector

Connector Location: JP1

Description: OSD Connector

PIN	ASSIGNMENT
1	LED_Green
2	VCC
3	LED_Red
4	MENU_Key
5	DOWN_Key
6	UP_Key
7	AUTO_Key
8	POWER_Key
9	GND

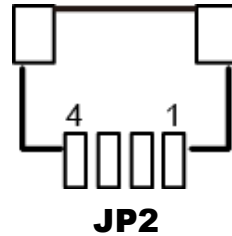


3.8.3 USB for Barcode Connector

Connector Location: JP2

Description: USB for Barcode Connector

PIN	ASSIGNMENT
1	VCC
2	D-
3	D+
4	GND



Appendix A System Diagrams

This appendix includes the exploded diagrams of the system and the parts list as well as the part numbers of the MP-4815 2nd Display.

- Exploded Diagrams for MP-4815 2nd Display Only
- Exploded Diagrams for 2nd Display with ABON 5-Wire Analog Resistive Touch Panel Assembly
- Exploded Diagrams for 2nd Display with GTOC Projected Capacitive Touch Panel Assembly
- Exploded Diagrams for Installing Hinge Bracket onto MP-4815
- Exploded Diagrams for Installing MP-4815 2nd Display onto PA-6225
- Exploded Diagrams for Installing MP-4815 2nd Display onto PA-6322
- Exploded Diagrams for Installing MP-4815 2nd Display onto PA-6722
- Exploded Diagrams for Installing MP-4815 2nd Display onto PA-6980
- MP-4815 Packing Exploded Diagram

Exploded Diagrams For 2nd Display Only

Exploded Diagram For MP-4815 Front Cover Module (Resistive Touch)

Exploded Diagram For MP-4815 Panel Module

Exploded Diagram For MP-4815 Panel Module Assembly

Exploded Diagram For MP-4815 OSD Board Assembly

Exploded Diagram For MP-4815 A/D Board Assembly

Exploded Diagram For MP-4815 Back Cover Module

Exploded Diagram For MP-4815 Back Cover Assembly

Exploded Diagram For MP-4815 MSR Cover Assembly

Exploded Diagrams For 2nd Display with ABON 5-Wire Analog Resistive Touch Panel Assembly

The following section describes the exploded diagrams of 2nd Display and ABON Resistive Touch Panel assembly.

Exploded Diagram For MP-4815 Front Cover Module (ABON Resistive Touch)

Exploded Diagram For MP-4815 Panel Module

**Exploded Diagram For MP-4815 Panel Module Assembly for ABON
Resistive Touch Panel**

Exploded Diagram For MP-4815 Barcode Module

**Exploded Diagram For MP-4815 OSD Board Assembly For ABON
Resistive Touch Panel**

**Exploded Diagram For MP-4815 A/D Board Assembly For ABON
Resistive Touch Panel**

Exploded Diagram For MP-4815 Back Cover Module

Exploded Diagram For MP-4815 Back Cover Assembly

Exploded Diagram For MP-4815 MSR Cover Assembly

Exploded Diagrams For 2nd Display with ELO 5-Wire Analog Resistive Touch Panel Assembly

The following section describes the exploded diagrams of 2nd Display and ELO Resistive Touch Panel assembly.

Exploded Diagram For MP-4815 Front Cover Module (ELO Touch)

Exploded Diagram For MP-4815 Panel Module

**Exploded Diagram For MP-4815 Panel Module Assembly for ELO
Resistive Touch Panel**

Exploded Diagram For MP-4815 Barcode Module

**Exploded Diagram For MP-4815 OSD Board Assembly For ELO
Resistive Touch Panel**

**Exploded Diagram For MP-4815 A/D Board Assembly For ELO
Resistive Touch Panel**

Exploded Diagram For MP-4815 Back Cover Module

Exploded Diagram For MP-4815 Back Cover Assembly

Exploded Diagram For MP-4815 MSR Cover Assembly

Exploded Diagrams For 2nd Display with GTOC Projected Capacitive Touch Panel Assembly

The following section describes the exploded diagrams of 2nd Display and GTOC Projected Capacitive Touch Panel assembly.

Exploded Diagram For Front Cover Module (Capacitive Touch)

Exploded Diagram For MP-4815 Panel Module

Exploded Diagram For MP-4815 Panel Module Assembly

Exploded Diagram For MP-4815 Barcode Module

Exploded Diagram For MP-4815 OSD Board Assembly

Exploded Diagram For MP-4815 A/D Board Assembly

Exploded Diagram For MP-4815 Back Cover Module

Exploded Diagram For MP-4815 Back Cover Assembly

Exploded Diagram For MP-4815 MSR Cover Assembly

**Exploded Diagrams For Installing Hinge Bracket onto
MP-4815**

Exploded Diagram For MP-4815 Hinge Cover Module

Exploded Diagram For MP-4815 Cable Cover Assembly

Exploded Diagrams For Installing MP-4815 2nd Display onto PA-6225

The following sections will instruct users how to install 2nd Display onto PA-6225 POS system.

See the [Exploded Diagrams for 2nd Display with ABON 5-Wire Analog Resistive Touch Panel](#) section on how to install 2nd Display and ABON Resistive Touch Panel.

See the [Exploded Diagrams for 2nd Display with ELO 5-Wire Analog Resistive Touch Panel Assembly](#) section on how to install MP-4815 Panel PC and ELO Resistive Touch Panel.

See the [Exploded Diagrams for 2nd Display with GTOC Capacitive Touch Panel Assembly](#) section on how to install 2nd Display and GTOC Capacitive Touch Panel.

**Exploded Diagram for Installing MP-4815 2nd Display onto
PA-6225**

Exploded Diagrams For Installing MP-4815 2nd Display onto PA-6322

The following sections will instruct users how to install 2nd Display onto PA-6322 POS system.

See the [Exploded Diagrams for 2nd Display with ABON 5-Wire Analog Resistive Touch Panel Assembly](#) section on how to install 2nd Display and ABON Resistive Touch Panel for MP-4815 second display.

See the [Exploded Diagrams for 2nd Display with ELO 5-Wire Analog Resistive Touch Panel](#) section on how to install 2nd Display and ELO Resistive Touch Panel.

See the [Exploded Diagrams for 2nd Display with GTOC Projected Capacitive Touch Panel Assembly](#) section on how to install 2nd Display and GTOC Projected Capacitive Touch Panel.

**Exploded Diagram for Installing MP-4815 2nd Display onto
PA-6322**

Exploded Diagrams For Installing MP-4815 2nd Display onto PA-6722

The following sections will instruct users how to install 2nd Display onto PA-6722 POS system.

See the [Exploded Diagrams for 2nd Display with ABON 5-Wire Analog Resistive Touch Panel Assembly](#) section on how to install 2nd Display and ABON Resistive Touch Panel.

See the [Exploded Diagrams for 2nd Display with ELO 5-Wire Analog Resistive Touch Panel Assembly](#) section on how to install 2nd Display and ELO Resistive Touch Panel.

See the [Exploded Diagrams for 2nd Display with GTOC Projected Capacitive Touch Panel Assembly](#) section on how to install 2nd Display and GTOC Projected Capacitive Touch Panel.

**Exploded Diagram for Installing MP-4815 2nd Display onto
PA-6722**

Exploded Diagrams For Installing MP-4815 2nd Display onto PA-6980

The following sections will instruct users how to install 2nd Display onto PA-6980 POS system.

See the [Exploded Diagrams for 2nd Display with ABON 5-Wire Analog Resistive Touch Panel](#) section on how to install 2nd Display and ABON Resistive Touch Panel.

See the [Exploded Diagrams for 2nd Display with ELO 5-Wire Analog Resistive Touch Panel](#) section on how to install 2nd Display and ELO Resistive Touch Panel.

See the [Exploded Diagrams for 2nd Display with GTOC Projected Capacitive Touch Panel Assembly](#) section on how to install 2nd Display and GTOC Projected Capacitive Touch Panel.

**Exploded Diagram for Installing MP-4815 2nd Display onto
PA-6980**

MP-4815 Packing Exploded Diagram