

USER MANUAL

VERSION 4.0 March 2019

TP/TM-XX40 Panel PC Hardware System



The information contained in this document is subject to change without notice. We make no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. We shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material. This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced or translated to another language without the prior written consent of the manufacturer.

TRADEMARK

Intel®, Pentium® and MMX are registered trademarks of Intel® Corporation. Microsoft® and Windows® are registered trademarks of Microsoft Corporation. Other trademarks mentioned herein are the property of their respective owners.

Safety

IMPORTANT SAFETY INSTRUCTIONS

1. To disconnect the machine from the electrical power supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
2. Read these instructions carefully. Save these instructions for future reference.
3. Follow all warnings and instructions marked on the product.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register or in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
10. The Clinical PC can be cleaned in accordance with normal clinical cleaning practices, including wiping with water or medical grade wipes, provided no substance containing acids or cleaning alkali liquids is used.
11. Medical grade wipes must not contain more than 80% alcohol content measured against the total content of the wipe.

Sécurité

INSTRUCTIONS IMPORTANTES RELATIVES À LA SECURITE

1. Pour débrancher la machine de l'alimentation électrique, éteignez l'interrupteur d'alimentation et retirez le cordon d'alimentation de la prise murale. La prise murale doit être facilement accessible et à proximité de la machine.
2. Lisez attentivement ces instructions. Conservez ces instructions pour une référence future.
3. Suivez tous les avertissements et les instructions indiquées sur le produit.
4. Ne pas utiliser ce produit à proximité de l'eau.
5. Ne pas placer ce produit sur un chariot, un support ou une table. Le produit peut tomber, causant de graves dommages à l'appareil.
6. Les fentes et les ouvertures dans le boîtier, l'arrière ou le fond sont prévues pour la ventilation afin d'assurer un fonctionnement fiable du produit et le protéger de la surchauffe. Ces ouvertures ne doivent pas être obstruées ou couvertes. Les ouvertures ne doivent jamais être bloquées en plaçant l'appareil sur un lit, un canapé, un tapis ou autre surface similaire. Ce produit ne doit jamais être placé : à proximité ou sur un radiateur, sur un registre de chaleur ou dans une installation intégrée à moins qu'une ventilation adéquate soit prévue.
7. Ce produit doit être utilisé avec le type d'alimentation indiqué sur l'étiquette. Si vous n'êtes pas sûr du type d'alimentation disponible, consultez votre revendeur ou représentant local de l'entreprise.
8. Ne laissez rien reposer sur le cordon d'alimentation. Ne placez pas ce produit là où des personnes peuvent marcher sur le cordon.
9. N'introduisez jamais d'objets d'aucune sorte dans ce produit à travers les fentes du coffret car ils pourraient entrer en contact avec des points sous tension dangereux ou court-circuiter des pièces. Ne renversez jamais de liquide d'aucune sorte sur le produit.



This device complies with the requirements of the EEC directive 2014/30/EU with regard to "Electromagnetic compatibility" and 2014/35/EU "Low Voltage Directive".



This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.



Battery Caution

Risk of explosion if battery is replaced by an incorrectly type. Dispose of used battery according to the local disposal instructions.



Safety Caution

Note: To comply with IEC60950-1 Clause 2.5 (limited power sources, L.P.S) related legislation, peripherals shall be 4.7.3.2 "Materials for fire enclosure" compliant.

4.7.3.2 Materials for fire enclosures

For MOVABLE EQUIPMENT having a total mass not exceeding 18kg, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.

For MOVABLE EQUIPMENT having a total mass exceeding 18kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1

AVERTISSEMENT SUR LES BATTERIES AU LITHIUM

Il y a un danger d'explosion si la batterie n'est pas remplacée correctement. Remplacez-la uniquement par une batterie identique ou de type équivalent recommandée par le fabricant. Les batteries usagées doivent être mises au rebut conformément aux instructions du fabricant.



Avertissement Batterie

Risque d'explosion si la batterie est remplacée par un élément incompatible. Jetez les batteries usagées selon les instructions des dispositions locales.



Avertissement de sécurité

Remarque: Pour répondre à la norme IEC60950-1 alinéa 2.5 (sources d'énergie limitées, LPS) liés la législation, les périphériques doivent être conforme 4.7.3.2 "Matériaux pour enceinte coupe-feu»

4.7.3.2 "Matériaux pour équipements coupe-feu»

Pour les équipements mobiles ayant une masse totale n'excédant pas 18kg :

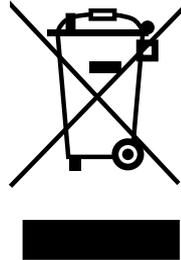
Les matériaux d'un équipement coupe-feu, dans l'épaisseur de paroi retenue la plus significativement mince, doivent être des matériels de CLASSE V-1 ou doivent passer le test de l'article A.2.

Pour équipements mobiles ayant une masse totale supérieure à 18 kg et pour tous les équipements FIXES :

Les matériaux d'un équipement coupe-feu dans l'épaisseur de paroi retenue la plus significativement mince, doivent être des matériels de CLASSE V-1, doivent être de classe Matériel 5VB ou doivent passer le test de l'article A.1

LEGISLATION AND WEEE SYMBOL

2012/19/EU Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dust bin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

Revision History

Changes to the original user manual are listed below:

Revision	Description	Date
1.0	<ul style="list-style-type: none">Initial release	April 2011
1.1	<ul style="list-style-type: none">IdeaCom touch driver installation added	June 2011
1.2	<ul style="list-style-type: none">3040 MB added	March 2012
1.3	<ul style="list-style-type: none">2040 MB added	June 2012
1.4	<ul style="list-style-type: none">2040 MB added1540 MB and 2040 MB removed	June 2013
2.0	<ul style="list-style-type: none">Add the French language of the Safety, Warning & Caution in the page iii~v	January 2014
2.1	<ul style="list-style-type: none">Add 3040 MB	September 2014
2.2	<ul style="list-style-type: none">2040 MB removed4040 MB added	July 2015
2.3	<ul style="list-style-type: none">Remove RJ11 port and relevant setting from 4040 and 3040 MB	December 2015
3.0	<ul style="list-style-type: none">5040 MB added	November 2016
3.1	<ul style="list-style-type: none">Important safety instruction updated	March 2017
4.0	<ul style="list-style-type: none">3040 MB removed5040 MB added	March 2019

Table of Contents

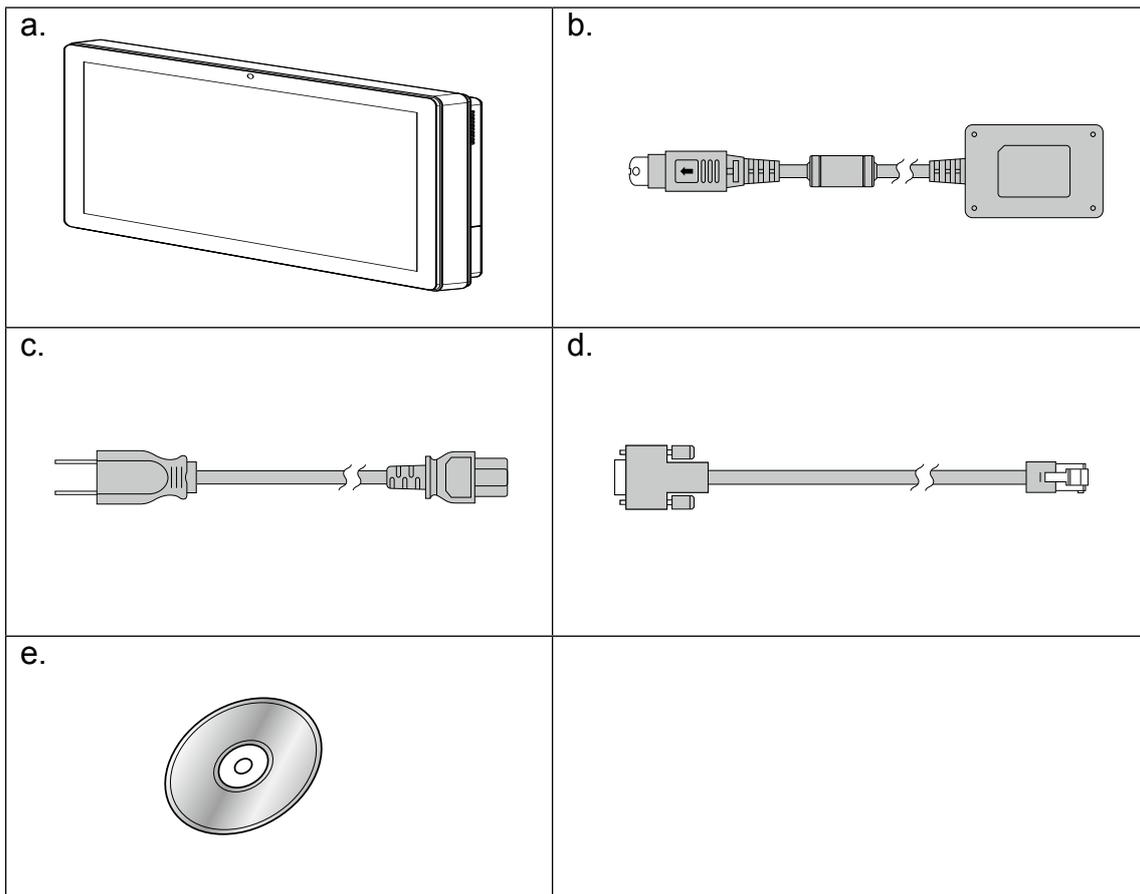
1. Packing List	1
1-1. Standard Items.....	1
1-2. Optional Items	2
2. System View	3
2-1. Front & Side View	3
2-2. Rear View	3
2-3. I/O view.....	4
2-4. Dimensions.....	6
2-4-1. 15.6" System	6
2-4-2. 18.5" System	6
2-4-3. 21.5" System	6
3. System Assembly	7
3-1. Open the Chassis Cover.....	7
3-2. RAM Module Replacement.....	8
3-3. HDD Replacement	9
4. Specification	10

5. Configuration	18
5-1. 3040 Motherboard Layout	18
5-1-1. Motherboard Layout.....	18
5-1-2. Connectors & Functions	19
5-1-3. Jumper Setting	20
5-2. 4040 V2.1 Motherboard Layout.....	22
5-2-1. Motherboard Layout.....	22
5-2-2. Connectors & Functions	23
5-2-3. Jumper Setting	24
5-3. 4040 V4.0 Motherboard Layout.....	26
5-3-1. Motherboard Layout.....	26
5-3-2. Connectors & Functions	27
5-3-3. Jumper Setting	28
5-4. 5040 Motherboard	29
5-4-1. Motherboard Layout.....	29
5-4-2. Connectors & Functions	30
5-4-3. Jumper Setting	31
5-5. 5040 Motherboard	33
5-5-1. Motherboard Layout.....	33
5-5-2. Connectors & Functions	34
5-5-3. Jumper Setting	35

The page is intentionally left blank.

1. Packing List

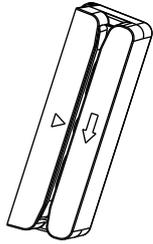
1-1. Standard Items



- a. System
- b. Power adapter
- c. Power cord
- d. RJ45-DB9 cable (x2)
- e. Driver bank

Note: Power cord will be supplied differently according to various region or country.

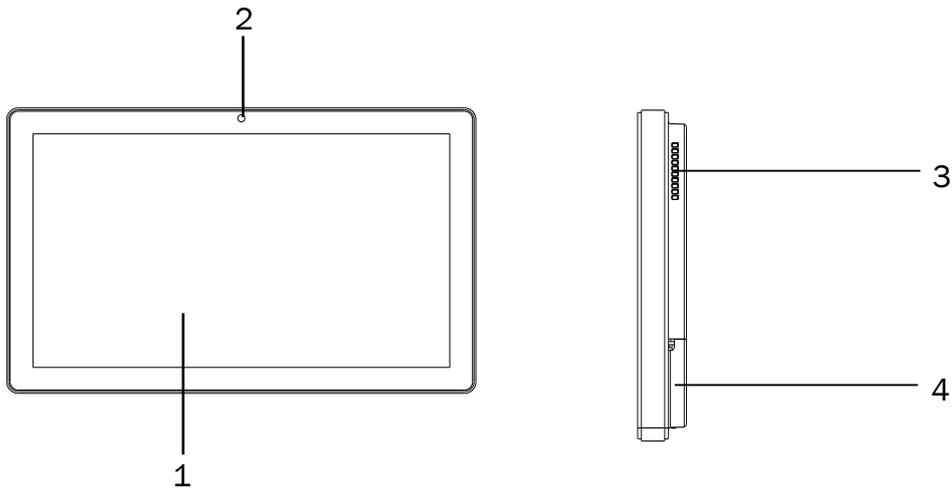
1-2. Optional Items



MSR

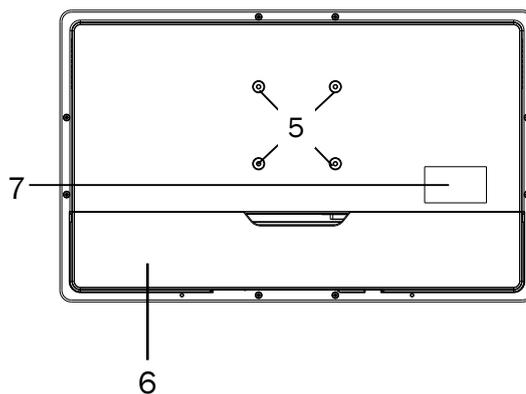
2. System View

2-1. Front & Side View



- 1. Touch screen
- 2. Built-in web cam
- 3. Ventilation
- 4. MSR cable hole

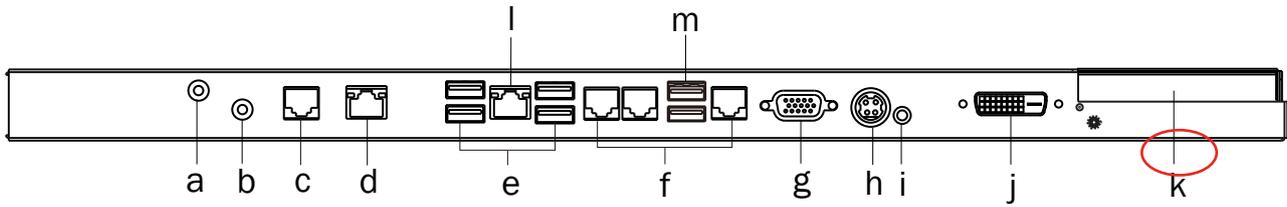
2-2. Rear View



- 5. VESA mounting holes
- 6. Cable cover
- 7. Safety label

2-3. I/O view

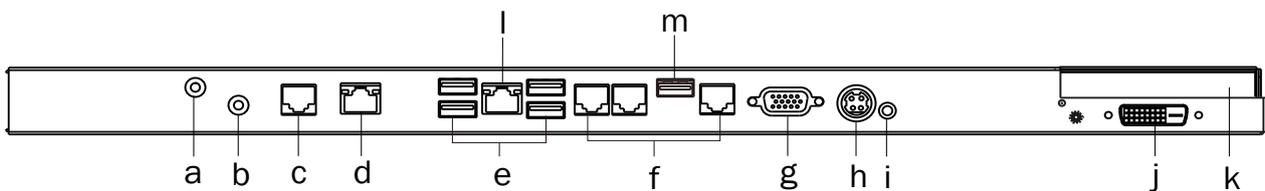
3040 Motherboard



Item No.	Description
a	Mic in
b	Line out
c	COM4
d	2 nd LAN
e	USB 2.0(x4)
f	COM port 1, 2, 3 (from left to right)
g	VGA
h	DC in
i	Power button
j	DVI-D
k	HDD slot
l	LAN
m	USB 3.0(x2)

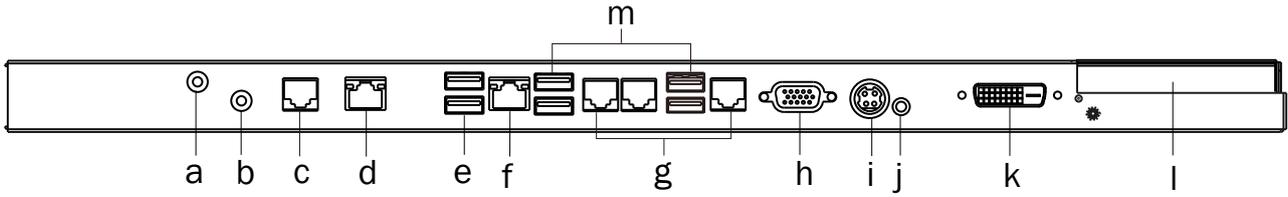
*The location of the DVI port for K757 IO bracket is displayed as the red circle marked in the above figure.

4040 Motherboard



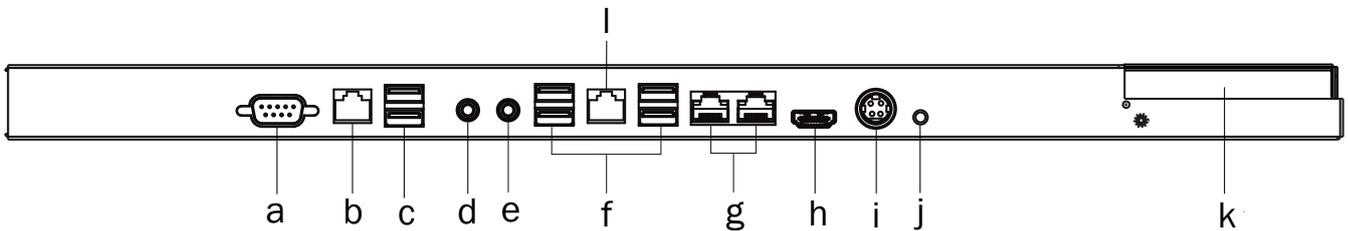
Item No.	Description
a	Mic in
b	Line out
c	COM4
d	2 nd LAN
e	USB 2.0(x4)
f	COM port 1, 2, 3 (from left to right)
g	VGA
h	DC in
i	Power button
j	DVI-D (option)
k	HDD slot
l	LAN
m	USB 3.0 (x1)

5040 Motherboard



Item No.	Description
a	Mic in
b	Line out
c	COM4
d	2 nd LAN
e	USB 2.0(x2)
f	LAN
g	COM port 1, 2, 3 (from left to right)
h	VGA
i	DC in
j	Power button
k	DVI-D
l	HDD slot
m	USB 3.0(x4)

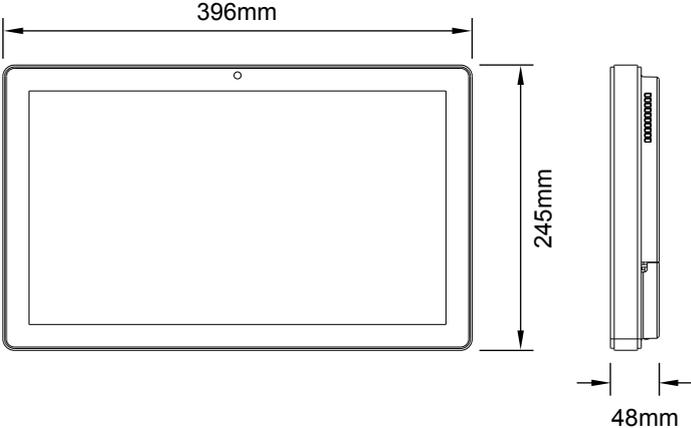
5040 Motherboard



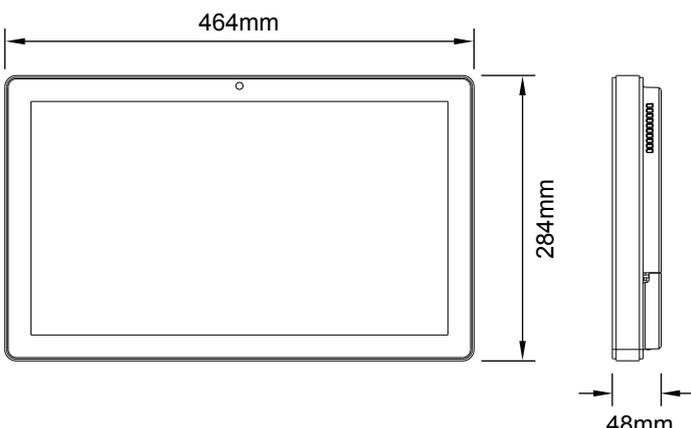
Item No.	Description
a	VGA
b	2 nd LAN
c	USB 2.0(x2)
d	Mic in
e	Line out
f	USB 3.0(x4)
g	COM port 1, 2 (from left to right)
h	HDMI
i	DC in
j	Power button
k	HDD slot
l	LAN

2-4. Dimensions

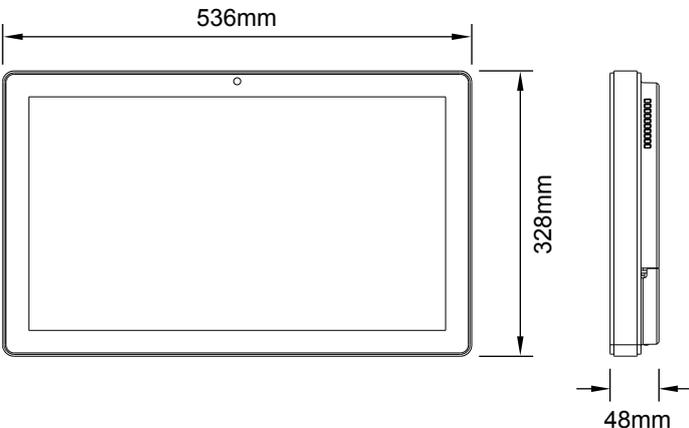
2-4-1. 15.6" System



2-4-2. 18.5" System



2-4-3. 21.5" System

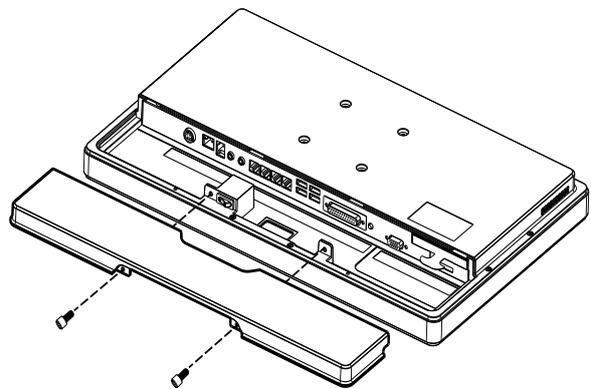


3. System Assembly

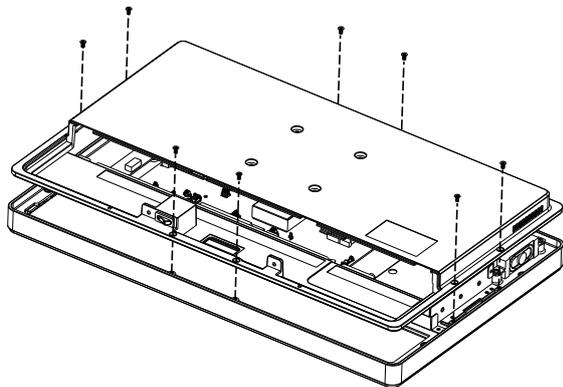
3-1. Open the Chassis Cover

The motherboard and RAM module can be replaced by opening the chassis cover, which is located on the back side of the system. Please follow the steps below to open the chassis cover.

1. Turn to the back side of the system and loosen the screws (x2) to release the cable cover first.



2. Loosen the screws (x8) to open the back cover of the system.

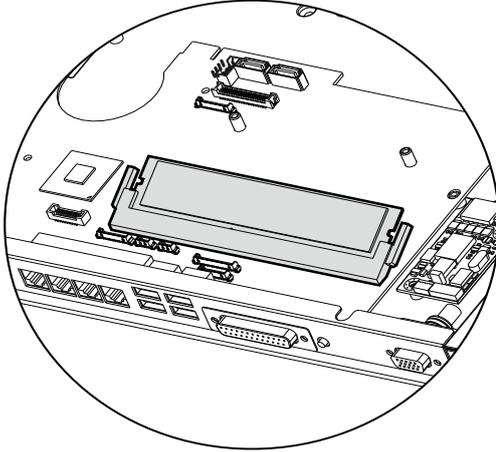


3-2. RAM Module Replacement

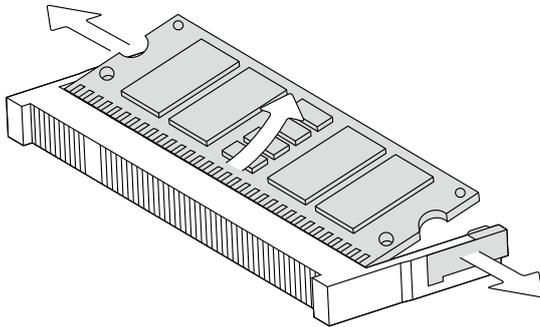
To remove and replace the RAM module, please open the chassis cover firstly as steps dscribed in chapter 3-1.

Removing a RAM module

1. Find the memory slot at the right side of the motherboard.

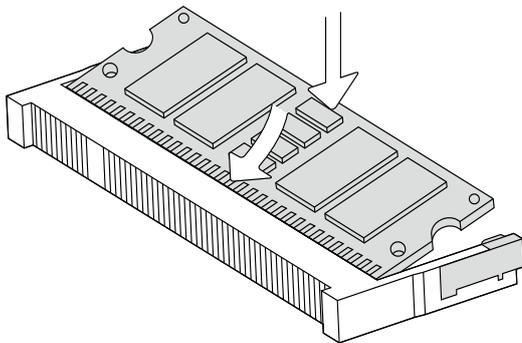


2. Flip the ejector clips outwards to remove the memory module from the memory slot.



Installing a RAM module

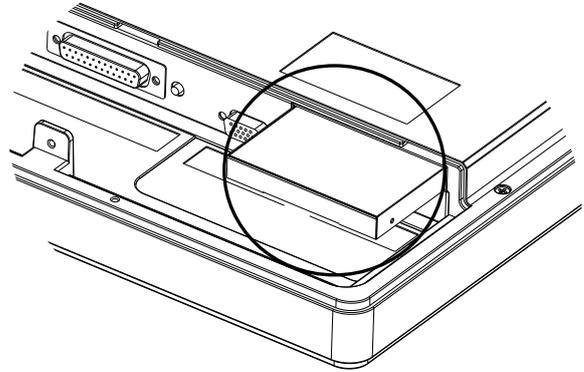
3. Slide the memory module into the memory slot and press down until the ejector clips snaps in place.



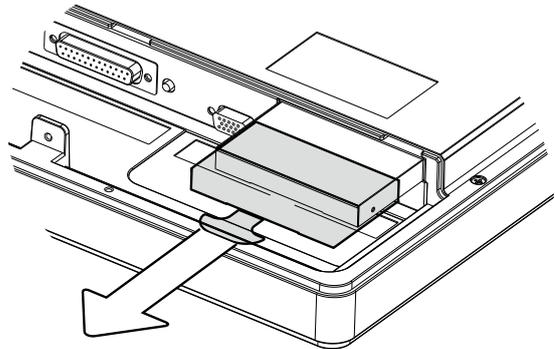
3-3. HDD Replacement

To remove and replace the HDD, please open the cable cover firstly as stpes dscribed in chapter 3-1-1.

1. Find the HDD located at the right side.

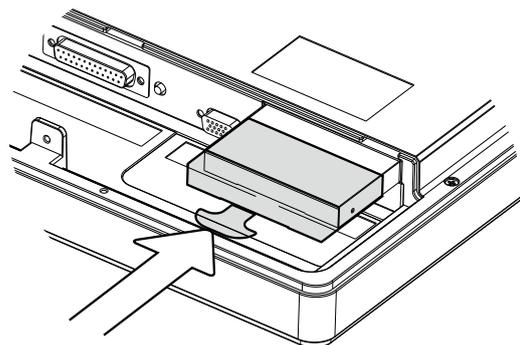
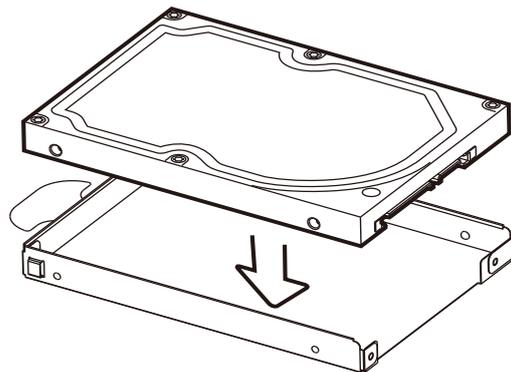


2. Pull the HDD tray from the system. For easier removal pull the plastic sheet (see picture) at the same time.



3. Attach the HDD to the HDD tray and slide it into the slot until it snaps in place.

- * Please note the top of the HDD should be on the upper side.



4. Specification

Model Name	TP-3040		
Mainboard	3040		
CPU	Intel Haswell CPU, LGA 1150pins, 22nm i7-4770TE 2.3G(Turbo 3.3G), LLC 8M, 45W i5-4570TE 2.7G(Turbo 3.3G), LLC 4M, 35W i3-4330TE 2.4G, LLC 3M, 35W Pentium G3320TE 2.3G, LLC 3M, 35W Celeron G1820TE 2.2G, LLC 2M, 35W		
Chipset	Intel Lynx Point PCH Q87(AMT technology)		
System Memory	S.O.DIMM x1, FSB 1333/1600MHz, default 2G, max. 8G		
Graphic Memory	Intel HD Graphics/HD Graphics 4600, integrated in CPU, DX11.1		
LAN controller (Giga LAN)	Intel I218LM (Phy), 2nd LAN Realtek 8111E (F40 board)		
Audio controller	Realtek ALC662VDO-GR		
Super I/O controller	Winbond W83627UHG		
LVDS controller	NXP PTN3460		
BIOS	Phoenix UEFI		
Touch controller	Elo coach V (USB)		
TPM controller	NUVOTON TPM NPCT 420		
LCD/Touch Panel			
LCD Size	15.6" LED LCD	18.5" LED LCD	21.5" LED LCD
Brightness	220 nits	250 nits	
Maximal Resolution	1366 x 768		1920 x 1080
Touch Screen Type	True flat resistive touch / True flat projected capacitive touch		
Storage			
HDD	2.5" Slim HDD bay, SATA HDD		
Flash Memory	SATA SSD Flash memory card 8G/16G/32G/64G (option)		
Peripherals			
Web Cam (Build-in)	2M Web Cam		
MSR-right side(Optional)	3 Track(USB)		
WiFi (Optional)	802.11 b/g/n WLAN card		
Device Box(Optional)	Smart IC card Reader/Scanner/Function Key Pad/Line Out/Mic In		
Expansion			
Mini PCI-E Socket	2 (1 x MB, 1 x F40)		
External I/O Ports			
USB3.0	2 x USB type A		
USB2.0	4 x USB Type A		
Serial / COM	3 x RJ48 (0V/5V/12V default BIOS setting 0V), 1 x RS-232/422 without power		
Parallel	N/A		
LAN (10/100/1000)	2 x RJ-45		
VGA	1 x DB 15 female		
Audio Jack	1 x Mic-in, 1 x Line-out		
DC Jack	1 x Latch type (4pin)		
e-SATA	Blind Hole		
Power Button	1		
DVI-D	1		

Model Name	TP-3040		
Mainboard	3040		
Thermal Solution			
Thermal Solution	1 x Fan		2 x Fan
Audio			
Speaker	2 x 2W		
Environment			
EMC & Safety	FCC/CE Class A/LVD/EN 60601-1-2		
Operating Temperature	0°C ~ 35°C (32°F ~ 95°F)		
Storage Temperature	-20° ~ 60°C (-4°F ~ 140°F)		
Humidity	25% - 85% RH non-condensing		
Dust & Water Proof	IP 54 (front panel)		
Dimensions (W x D x H)	396 x 245 x 48 mm	464 x 284 x 48 mm	536 x 328 x 48 mm
Weight (N.W./G.W.)	4.5kg/5.5kg	6.8kg/7.8kg	8kg /9kg
Mounting	75mm x 75mm Standard VESA / Panel Mount		
OS Support	Windows 7, POSReady 7, Windows 8.1, Linux, Windows 10 IOT (64-bit)		

* This specification is subject to change without prior notice.

Model Name	TP-4040		
Mainboard	4040		
CPU	Intel® BayTrail J1900 2.0G (Turbo 2.41G), L2 2M, 10W		
Chipset	NA		
System Memory	DDR3L, SO-DIMM x1 , FSB 1066 / 1333Mhz, max. 8G		
Graphic Memory	Intel Gen7@>300MHz		
LAN controller (Giga LAN)	Realtek RTL8111E-VL-CG 10/100/1000 BaseT LAN		
Audio controller	Realtek ALC662VDO-GR		
Super I/O controller	NCT6106D		
LVDS controller	Realtek RTD2136R		
BIOS	Phoenix UEFI		
Touch controller	EETI USB interface		
LCD/Touch Panel			
LCD Size	15.6" LED LCD	18.5" LED LCD	21.5" LED LCD
Brightness	220 nits	250 nits	
Maximal Resolution	1366 x 768		1920 x 1080
Touch Screen Type	True flat resistive touch / True flat projected capacitive touch		
Storage			
HDD	2.5" Slim HDD bay, SATA HDD		
Flash Memory	SATA SSD Flash memory card 8G/16G/32G/64G (option)		
Peripherals			
Web Cam (Build-in)	2M Web Cam		
F40	2nd LAN (RJ-45) & COM & Wide Range Power (12~48Vdc)		
MSR-right side(Optional)	3 Track(USB)		
WiFi (Optional)	802.11 b/g/n WLAN card		
Device Box(Optional)	Smart IC card Reader/Scanner/Function Key Pad/Line Out/Mic In		
Expansion			
Mini PCI-E Socket	1 (half-length)		
External I/O Ports			
USB3.0	1 x USB Type A		
USB2.0	4 x USB Type A		
Serial / COM	3 x RJ48 (0V/5V/12V default BIOS setting 0V), 1 x RS-232/422 without power		
LAN	1 x RJ-45		
2 nd LAN	mini-PCIe to F40 (port on F40)		
VGA	1 x DB 15 female		
Audio Jack	1 x Mic-in, 1 x Line-out		
DC Jack	1 x Latch type (4pin)		
Power Button	1		
DVI-D	1(option)		
Thermal Solution			
Thermal Solution	1 x Fan		2 x Fan
Audio			
Speaker	2 x 2W		
Power			
Power Adapter	DC 19V / 65W		DC 19V / 90W
Environment			
EMC & Safety	FCC/CE Class A/LVD/EN 60601-1-2		
Operating Temperature	0 °C ~ 35 °C (32 °F ~ 95 °F)		
Storage Temperature	-20 ° ~ 60 °C (-4 °F ~ 140 °F)		

Model Name	TP-4040		
Mainboard	4040		
Humidity	25% - 85% RH non-condensing		
Dust & Water Proof	IP 54 (front panel)		
Dimensions (W x D x H)	396 x 245 x 48 mm	464 x 284 x 48 mm	536 x 328 x 48 mm
Weight (N.W./G.W.)	4.5kg/5.5kg	6.8kg/7.8kg	8kg /9kg
Mounting	75mm x 75mm Standard VESA / Panel Mount		
OS Support	Windows 7, POSReady 7, Windows 8.1, Linux, Windosw 10 IOT		

* This specification is subject to change without prior notice.

Model Name	TP-5040		
Mainboard	5040		
CPU	Intel SKYLAKE U CPU Celeron 3955U 2GHz, LLC 2M (15W) i3-6100U 2.3GHz, LLC 3M (15W) i5-6300U 2.4GHz		
Chipset	SoC built-in CPU		
System Memory	DDR3L1600MHz (8GB Max); 1 Channel		
Graphic Memory	Intel Graphic (Gen 9) DX12, define on CPU		
LAN controller (Giga LAN)	Realtek RTL8111E-VL-CG 10/100/1000 baseT LAN		
LCD/Touch Panel			
LCD Size	15.6" LED LCD	18.5" LED LCD	21.5" LED LCD
Brightness	220 nits	250 nits	
Maximal Resolution	1366 x 768		1920 x 1080
Touch Screen Type	True flat resistive touch / True flat projected capacitive touch		
Storage			
HDD	2.5" Slim HDD bay, SATA HDD		
Flash Memory	SATA SSD Flash memory card 8G/16G/32G/64G (option)		
Peripherals			
Web Cam (Build-in)	2M Web Cam		
F40	2nd LAN (RJ-45) & COM & Wide Range Power (12~48Vdc)		
MSR-right side(Optional)	3 Track(USB)		
WiFi (Optional)	802.11 b/g/n WLAN card		
Device Box(Optional)	Smart IC card Reader/Scanner/Function Key Pad/Line Out/Mic In		
Expansion			
Mini PCI-E Socket	1 (half-length)		
External I/O Ports			
USB3.0	4 x USB Type A		
USB2.0	2 x USB Type A		
Serial / COM	3 x RJ48 (0V/5V/12V default BIOS setting 0V), 1 x RS-232/422 without power		
LAN	1 x RJ-45		
2 nd LAN	mini-PCIe to F40 (port on F40)		
VGA	1 x DB 15 female		
Audio Jack	1 x Mic-in, 1 x Line-out		
DC Jack	1 x Latch type (4pin)		
Power Button	1		
DVI-D	1(option)		
Thermal Solution			
Thermal Solution	1 x Fan		2 x Fan
Audio			
Speaker	2 x 2W		
Power			
Power Adapter	DC 19V / 65W		DC 19V / 90W
Environment			
EMC & Safety	FCC/CE Class A/LVD/EN 60601-1-2		
Operating Temperature	0 °C ~ 35 °C (32 °F ~ 95 °F)		
Storage Temperature	-20 ° ~ 60 °C (-4 °F ~ 140 °F)		

Model Name	TP-5040		
Mainboard	5040		
Humidity	25% - 85% RH non-condensing		
Dust & Water Proof	IP 54 (front panel)		
Dimensions (W x D x H)	396 x 245 x 48 mm	464 x 284 x 48 mm	536 x 328 x 48 mm
Weight (N.W./G.W.)	4.5kg/5.5kg	6.8kg/7.8kg	8kg /9kg
Mounting	75mm x 75mm Standard VESA / Panel Mount		
OS Support	Windows 7 pro(64-bit), POSReady 7 (64-bit), Windows 8.1 (64-bit), Windows Embedded industry 8.1(64-bit), Windows 10 (64-bit), Windows 10 IOT (64-bit) Linux		

* This specification is subject to change without prior notice.

Model Name	TM-5040		
Mainboard	5040		
CPU	Intel SKYLAKE U CPU Celeron 3955U 2GHz, LLC 2M (15W,EIA) (i3-6100U 2.3GHz, LLC 3M (15W, EIA)) i5-6300U 2.4GHz, LLC 3M (15W,IA) (i7-6600U 2.6GHz, LLC 4M (15W, EIA))		
Chipset	NA		
System Memory	DDR4 2133 MHz (32GB Max) ; 2 Channel		
Graphic Memory	Intel Graphic (Gen 9) DX12, define on CPU		
LAN controller (Giga LAN)	Intel WG I219 LM (1st LAN), Intel WG I211 AT (2 nd LAN)		
LCD/Touch Panel			
LCD Size	15.6" LED LCD	18.5" LED LCD	21.5" LED LCD
Brightness	220 nits	250 nits	
Maximal Resolution	1366 x 768		1920 x 1080
Touch Screen Type	True flat resistive touch / True flat projected capacitive touch		
Storage			
HDD	2.5" Slim HDD bay, SATA HDD		
Flash Memory	SATA SSD Flash memory card 8G/16G/32G/64G (option)		
Peripherals			
Web Cam (Build-in)	2M Web Cam		
MSR-right side(Optional)	3 Track(USB)		
WiFi (Optional)	802.11 b/g/n WLAN card		
Device Box(Optional)	Smart IC card Reader/Scanner/Line Out/Mic In/RFID		
Expansion			
Mini PCI-E Socket	1 (half-length)		
External I/O Ports			
USB	2 x USB2.0 4 x USB 3.0/2.0		
Serial / COM	2 x RJ48 (0V/5V/12V default BIOS setting 0V), RS232/422/485		
LAN	1 (1x WG1219LM)		
2 nd LAN	1(1x INTEL WG1211AT)		
HDMI	1		
VGA	1 x DB 15 female		
Audio Jack	1 x Mic-in, 1 x Line-out		
DC Jack	1 (Lock type)		
Power Button	1		
Control / Indicator			
Power switch	1		
Audio			
Speaker	2 x 2W		
Power			
Wide Range Voltage	12V ~ 48V		

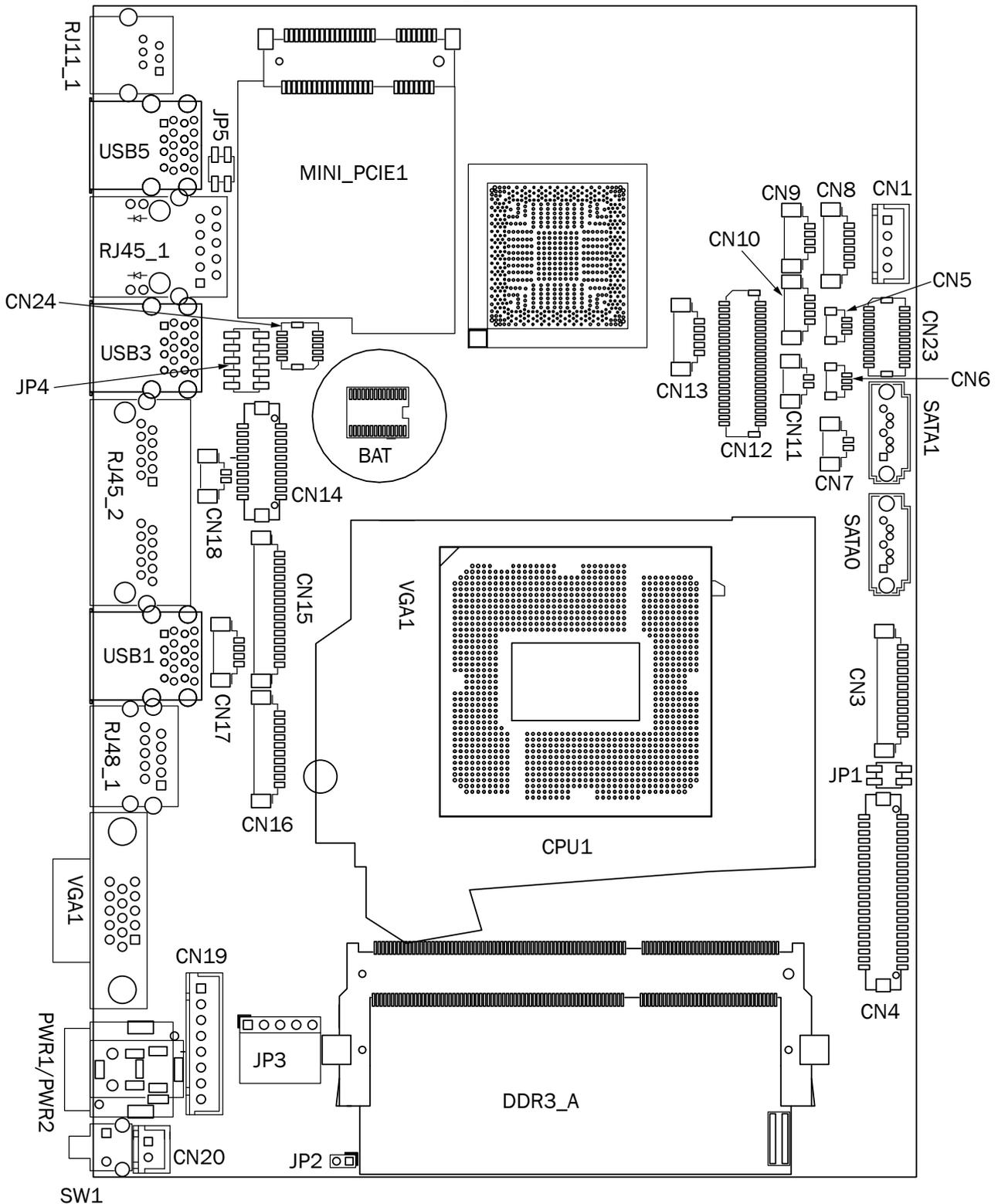
Model Name	TM-5040		
Mainboard	5040		
Power Adapter	DC 19V/90W Mfr.: MEAN WELL Enterprises Co., Ltd. Model: GSM90A19 I/P: 100-240Vac, 50/60 Hz, 1.3-0.6A		
Environment			
EMC & Safety	FCC / CE Class B, LVD		
Certification	FCC / CE(EN55032:2010 + AC:2016 CLASS B) EN60601-1-2:2015 Standard: ANSI/AAMI ES60601-1 (2005/@2012 + A1:2012, C1:2009/(R)2012+ A2:2010/(R)2012) - Amendment 1 - Revision Date 2012/08/21 CAN/CSA-C22.2 No. 60601-1:14 - Edition 3 - Revision Date 2014/03 RoHS(2011/65/EU) WEEE(2012/19/EU) REACH		
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)		
Storage Temperature	-20° ~ 60°C (-4°F ~ 140°F)		
Operating Altitude Range	0-2000m		
Storage Altitude Range	0-2000m		
Humidity	20% - 85% RH non-condensing		
Dust & Water Proof	IPX0 (IP54 for front panel only)		
Dimensions(W x D x H)	396 x 245 x 48 mm	464 x 284 x 48 mm	536 x 328 x 48 mm
Weight	3.76kg	5.02kg	6.9kg
Mounting	75mm x 75mm Standard VESA / Panel Mount		
OS Support	Legacy: Windows 7 UEFI: Windows Embedded industry 8.1 (64-bit), Windows IOT 10(64-bit) Linux : Ubuntu After 15.10, Fedora After 23		

* This specification is subject to change without prior notice.

5. Configuration

5-1. 3040 Motherboard Layout

5-1-1. Motherboard Layout



5-1-2. Connectors & Functions

Connector	Function
CN1	SATA power connector
CN3	Inverter connector
CN4	LVDS connector
CN5	CPU FAN connector
CN6	System FAN connector
CN7	HDD LED connector
CN8	Speaker & MIC connector
CN9/10	USB port (internal)
CN11	Power LED connector
CN12	40pin external connector
CN13	EC Debug
CN14	Printer connector
CN15	MSR connector
CN16	COM5 (touch) connector
CN17	PS2 keyboard connector
CN18	RTC connector
CN19	Wide Range
CN20	Power button (internal)
CN21	LCM connector
CN22	51pin connector
CN23	SDU connector
CN24	SDU connector (LAN)
RJ45_1	LAN connector
RJ45_2	COM1/ COM2
RJ48_1	COM3
PWR1	DC Jack (4 pin)
PWR2	DC Jack (2 pin)
SATA0	SATA0
SATA1	SATA1
SW1	Power button
USB1	USB3.0
USB4	USB2.0
USB6	USB2.0
VGA1	CRT connector
DDR3_A	DDR3 SO-DIMM
JP1	Inverter select
JP2	Hardware Reset
JP3	Touch connector
JP4	LCD ID setting

5-1-3. Jumper Setting

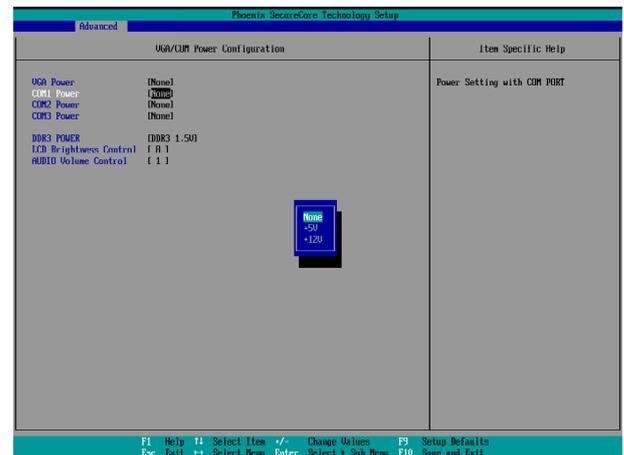
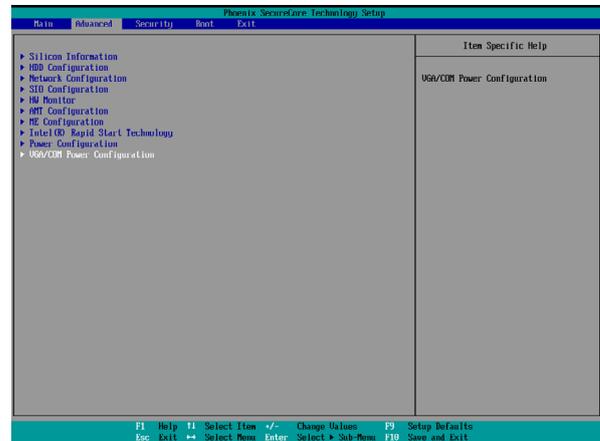
Inverter Selection

Function	JP1				
▲ LED	<table border="1"> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> </table>	1	3	2	4
1	3				
2	4				
CCFL	<table border="1"> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> </table>	1	3	2	4
1	3				
2	4				

COM1/COM2/COM3 Power Setting

COM1, COM2 and COM3 can be set to provide power to your serial device. The voltage can be set to +5V or +12V in the BIOS.

1. Power on the system, and press the key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power Configuration** Ports and press <Enter> to go to display the available options.
4. To enable the power, select COM1, COM2 or COM3 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



▲ = Manufacturer Default Setting

LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP4										
		Bits	Channel												
1	800 x 600	18	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="border: 1px solid black; padding: 2px 5px;">3</td><td style="padding: 0 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="border: 1px solid black; padding: 2px 5px;">4</td><td style="border: 1px solid black; padding: 2px 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
2	800 x 600	24	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="border: 1px solid black; padding: 2px 5px;">1</td><td style="padding: 0 5px;">3</td><td style="border: 1px solid black; padding: 2px 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="border: 1px solid black; padding: 2px 5px;">2</td><td style="padding: 0 5px;">4</td><td style="border: 1px solid black; padding: 2px 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
3	1024 x 768	18	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="padding: 0 5px;">3</td><td style="border: 1px solid black; padding: 2px 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="padding: 0 5px;">4</td><td style="border: 1px solid black; padding: 2px 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
4	1024 x 768	24	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="border: 1px solid black; padding: 2px 5px;">1</td><td style="border: 1px solid black; padding: 2px 5px;">3</td><td style="padding: 0 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="border: 1px solid black; padding: 2px 5px;">2</td><td style="border: 1px solid black; padding: 2px 5px;">4</td><td style="padding: 0 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
5	1366 x 768	18	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="border: 1px solid black; padding: 2px 5px;">3</td><td style="padding: 0 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="border: 1px solid black; padding: 2px 5px;">4</td><td style="padding: 0 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
6	1366 x 768	24	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="border: 1px solid black; padding: 2px 5px;">1</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="border: 1px solid black; padding: 2px 5px;">2</td><td style="padding: 0 5px;">4</td><td style="padding: 0 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
7	1024 x 600	18	Single	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">5</td><td style="border: 1px solid black; padding: 2px 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="padding: 0 5px;">4</td><td style="padding: 0 5px;">6</td><td style="border: 1px solid black; padding: 2px 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
8	1280 x 1024	24	Dual	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="border: 1px solid black; padding: 2px 5px;">1</td><td style="border: 1px solid black; padding: 2px 5px;">3</td><td style="border: 1px solid black; padding: 2px 5px;">5</td><td style="padding: 0 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="border: 1px solid black; padding: 2px 5px;">2</td><td style="border: 1px solid black; padding: 2px 5px;">4</td><td style="border: 1px solid black; padding: 2px 5px;">6</td><td style="padding: 0 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
9	1440 x 900	24	Dual	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="border: 1px solid black; padding: 2px 5px;">3</td><td style="border: 1px solid black; padding: 2px 5px;">5</td><td style="padding: 0 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="border: 1px solid black; padding: 2px 5px;">4</td><td style="border: 1px solid black; padding: 2px 5px;">6</td><td style="padding: 0 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
15	1920 x 1080	24	Dual	LVDS Panel	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">5</td><td style="padding: 0 5px;">7</td><td style="padding: 0 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="padding: 0 5px;">4</td><td style="padding: 0 5px;">6</td><td style="padding: 0 5px;">8</td><td style="padding: 0 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
				CRT	<table style="border-collapse: collapse; margin: auto;"> <tr><td style="padding: 0 5px;">1</td><td style="padding: 0 5px;">3</td><td style="padding: 0 5px;">5</td><td style="padding: 0 5px;">7</td><td style="border: 1px solid black; padding: 2px 5px;">9</td></tr> <tr><td style="padding: 0 5px;">2</td><td style="padding: 0 5px;">4</td><td style="padding: 0 5px;">6</td><td style="padding: 0 5px;">8</td><td style="border: 1px solid black; padding: 2px 5px;">10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											

1
2

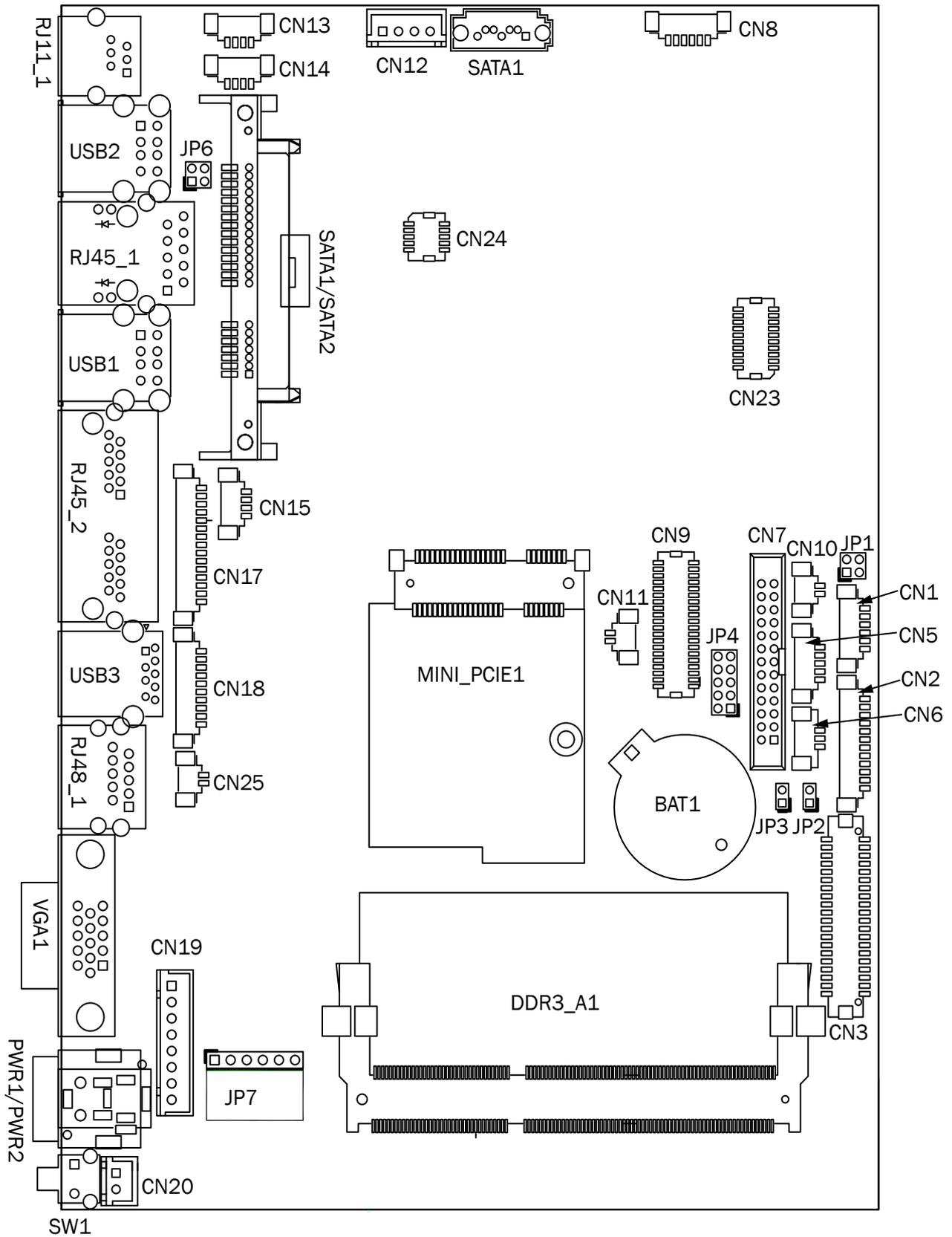
 Jumper open

1
2

 Jumper short

5-2. 4040 V2.1 Motherboard Layout

5-2-1. Motherboard Layout



5-2-2. Connectors & Functions

Connector	Function
CN1	Front I/O board
CN2	Inverter connector
CN3	LVDS connector
CN6	System FAN connector
CN7	LPT port connector
CN8	Speaker & MIC connector
CN9	40pin external connector
CN10	HDD LED connector
CN11	Power LED connector
CN12	SATA power connector
CN13/14	USB port (internal)
CN15	PS2 keyboard connector
CN17	MSR connector
CN18	COM5 (touch) connector
CN19	Wide Range
CN20	Power button (internal)
CN21	LCM connector
CN22	POS325 51pin connector
CN25	S5/S0 Status LED
PWR1/PWR2	DC Jack
RJ45_1	LAN connector
RJ45_2	COM1/ COM2
RJ48_1	COM3
DDR3_A1	DDR3 SO-DIMM
SATA0/SATA2	SATA
USB1/USB2	USB2.0
USB3	USB3.0
VGA1	CRT connector
SW1	Power button
MINI_PCIE1	MINI PCIE
JP1	Inverter select
JP4	LCD ID setting
JP7	Touch connector

5-2-3. Jumper Setting

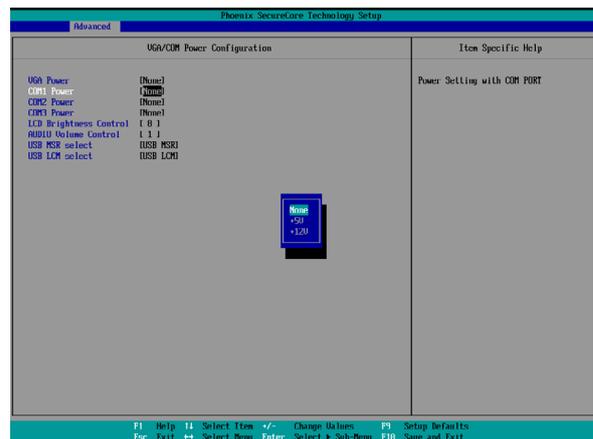
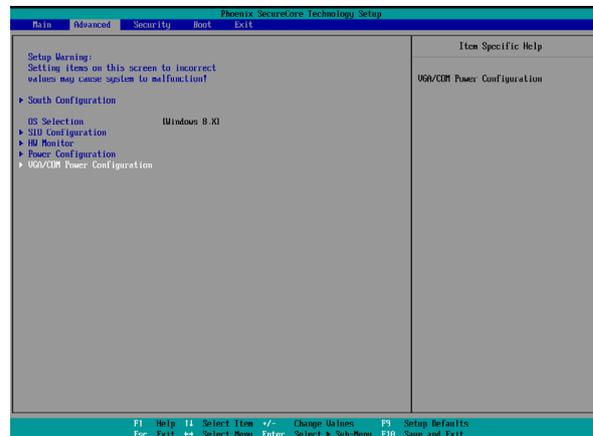
Inverter Selection

Function	JP1				
▲ LED	<table border="1"> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> </table>	1	3	2	4
1	3				
2	4				
CCFL	<table border="1"> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> </table>	1	3	2	4
1	3				
2	4				

COM1/COM2/COM3 Power Setting

COM1, COM2 and COM3 can be set to provide power to your serial device. The voltage can be set to +5V or +12V in the BIOS.

1. Power on the system, and press the key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power Configuration** Ports and press <Enter> to go to display the available options.
4. To enable the power, select COM1 ,COM2 or COM3 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



▲ = Manufacturer Default Setting

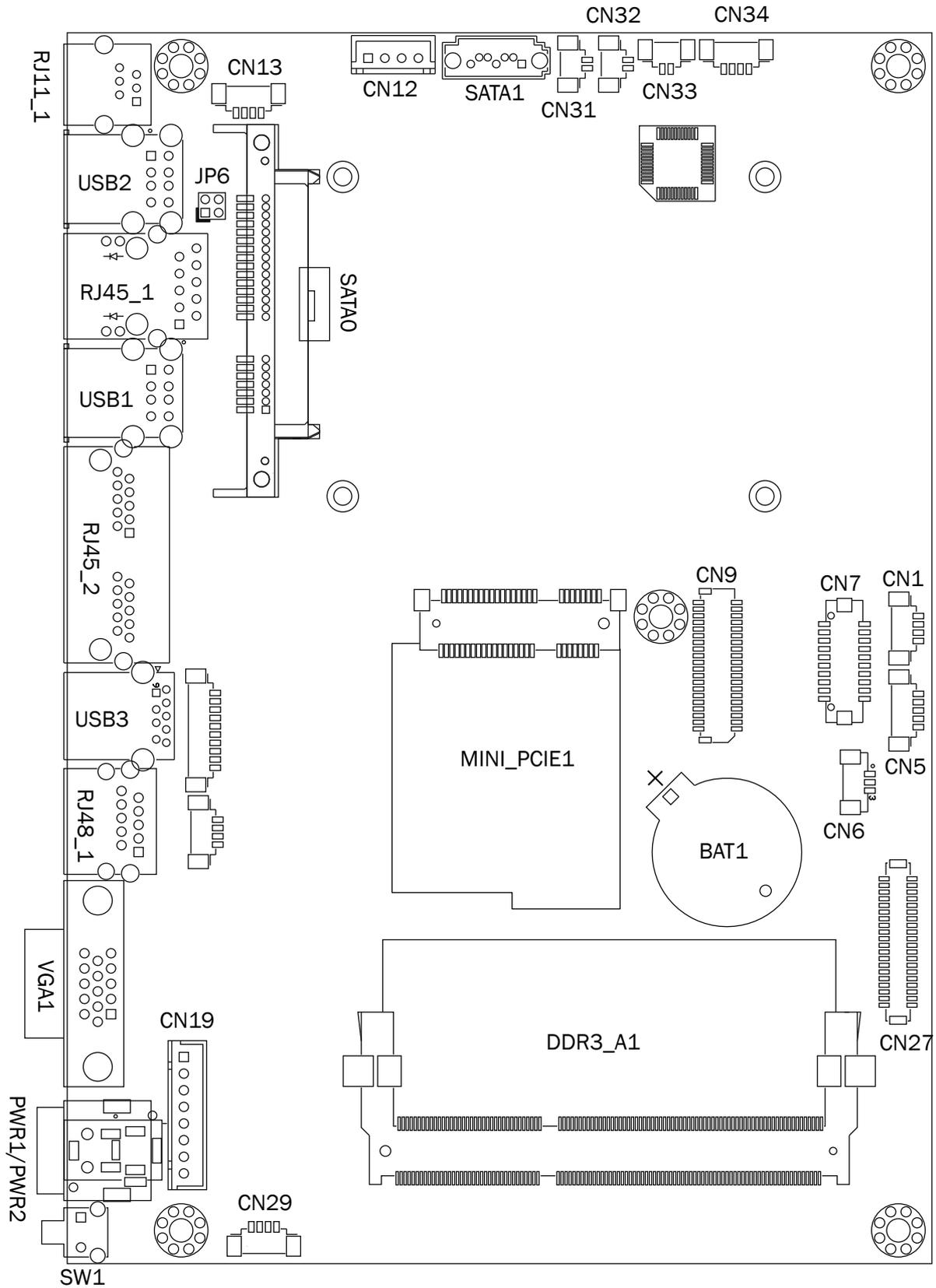
LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP3
		Bits	Channel		
1	800 x 600	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
2	800 x 600	24	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
3	1024 x 768	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
4	1024 x 768	24	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
5	1366 x 768	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
6	1366 x 768	24	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
7	1024 x 600	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
8	1280 x 1024	24	Dual	LVDS Panel	1 3 5 7 9 2 4 6 8 10
9	1440 x 900	24	Dual	LVDS Panel	1 3 5 7 9 2 4 6 8 10
10	1028 x 800	18	Dual	LVDS Panel	1 3 5 7 9 2 4 6 8 10
15	1920 x 1080	24	Dual	LVDS Panel	1 3 5 7 9 2 4 6 8 10
				CRT	1 3 5 7 9 2 4 6 8 10

1 Jumper open 1 Jumper short
2 Jumper open 2 Jumper short

5-3. 4040 V4.0 Motherboard Layout

5-3-1. Motherboard Layout



5-3-2. Connectors & Functions

Connector	Function
CN1/CN13/CN21/CN29	Internal USB connector
CN5	EC Debug
CN6	CPU FAN connector
CN7	LPT connector
CN9	40Pin connector
CN12	SATA power connector
CN18	COM5 (touch) connector
CN19	Wide range power connector
CN25	S0/S5 LED & Power button connector
CN26	51P connector
CN27	eDP connector
CN31	Speaker L output
CN32	Speaker R output
CN33	MIC output
CN34	Earphone connector
BAT1	Battery connector
PWR1/PWR2	DC Jack
RJ11_1	Cash drawer connector
RJ45_1	LAN connector
RJ45_2	COM1/ COM2
RJ48_1	COM3
DDR3_A1	DDR3 SO-DIMM
SATA1/SATA2	SATA connector
USB1/USB2	USB2.0
USB3	USB3.0
VGA1	CRT connector
SW1	Power button
MINI_PCIE1	MINI PCIE
JP6	Cash drawer power setting

5-3-3. Jumper Setting

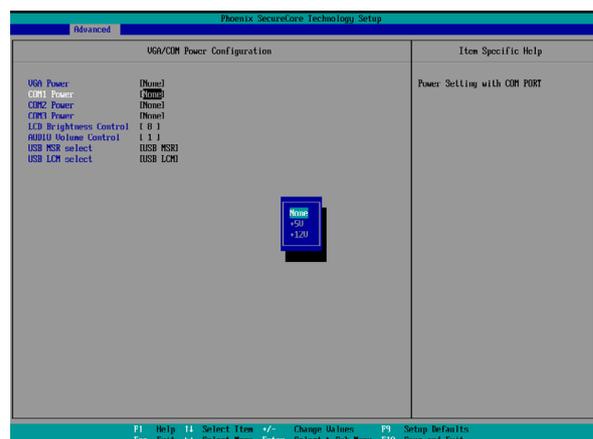
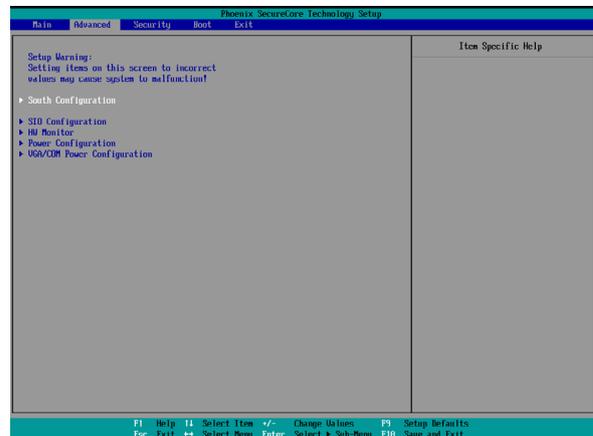
Cash Drawer Power Setting

Function	JP6				
▲ +19V	<table border="1"> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> </table>	1	3	2	4
1	3				
2	4				
+12V	<table border="1"> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> </table>	1	3	2	4
1	3				
2	4				

COM1/COM2/COM3 Power Setting

COM1, COM2 and COM3 can be set to provide power to your serial device. The voltage can be set to +5V or +12V in the BIOS.

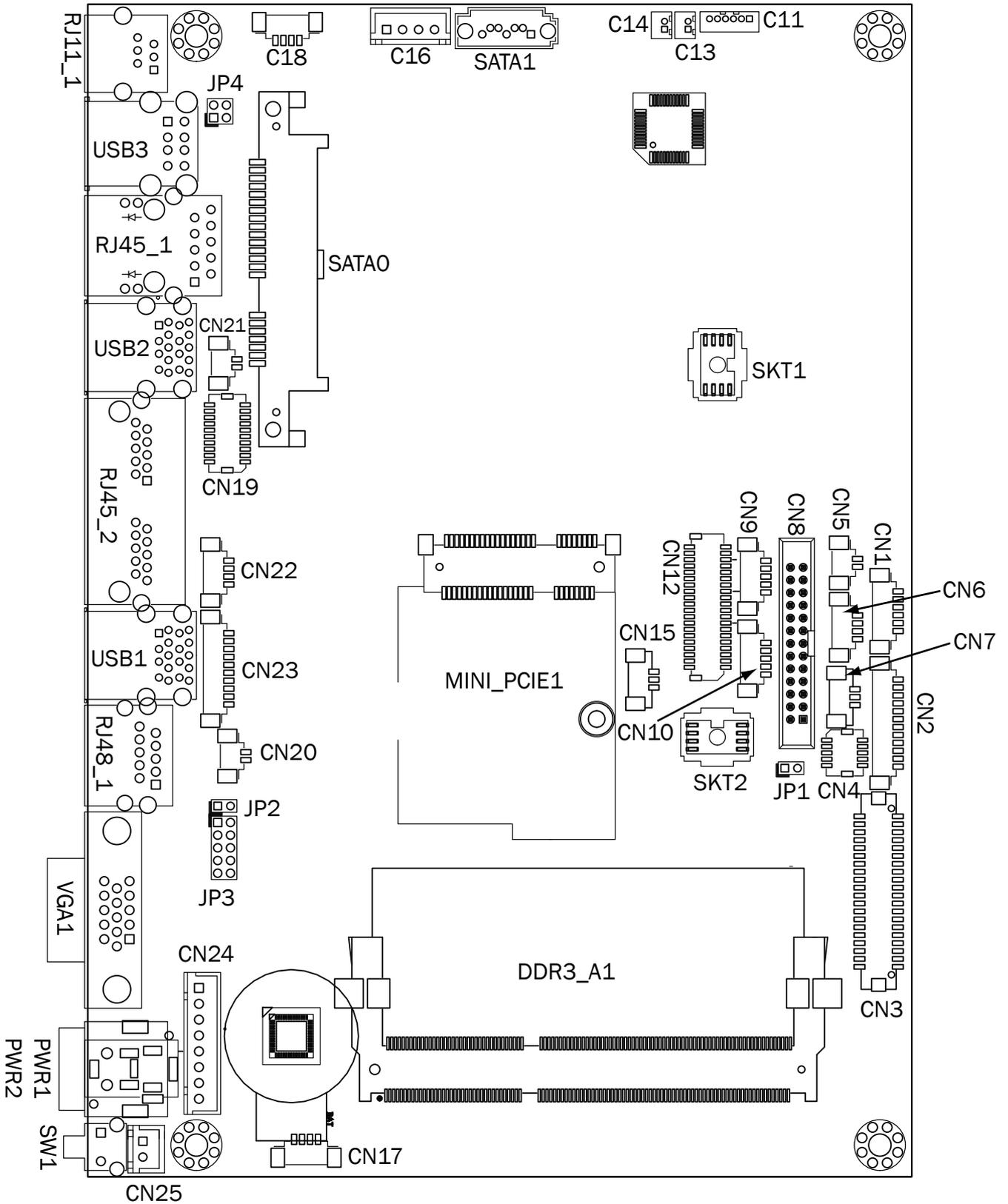
1. Power on the system, and press the key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power Configuration** Ports and press <Enter> to go to display the available options.
4. To enable the power, select COM1 ,COM2 or COM3 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



▲ = Manufacturer Default Setting

5-4. 5040 Motherboard

5-4-1. Motherboard Layout



5-4-2. Connectors & Functions

Connector	Function
CN1	Front I/O board
CN2	Inverter connector
CN3	LVDS connector
CN4	NFC
CN5	HDD LED connector
CN6	USB connector
CN7	System FAN connector
CN8	LPT port connector
CN9	Smart device connector
CN10	Debug port
CN11	Speaker & MIC connector
CN12	40 pin external connector
CN13	Audio connector(right)
CN14	Audio connector(left)
CN15	two color LED
CN16	SATA power connector
CN17/18	USB connector
CN19	SDR connector
CN20	Battery connector
CN21	Power LED connector
CN22	PS/2 connector
CN23	COM5 connector
CN24	Wide range connector
CN25	Power button connector
CN26	LCM connector
CN27	51 pin connector
PWR1/PWR2	DC Jack
RJ11_1	Cash drawer connector
RJ45_1	LAN connector
RJ45_2	COM1/ COM2
RJ48_1	COM3
DDR3_A1	DDR3 SO-DIMM
SATA0/SATA1	SATA connector
USB1/USB2	USB3.0
USB3	USB2.0
VGA1	CRT connector
SW1	Power button
MINI_PCIE1	MINI PCIE
JP1	Hardware reset
JP2	RTC reset
JP3	LCD ID setting
JP4	Cash drawer power setting

5-4-3. Jumper Setting

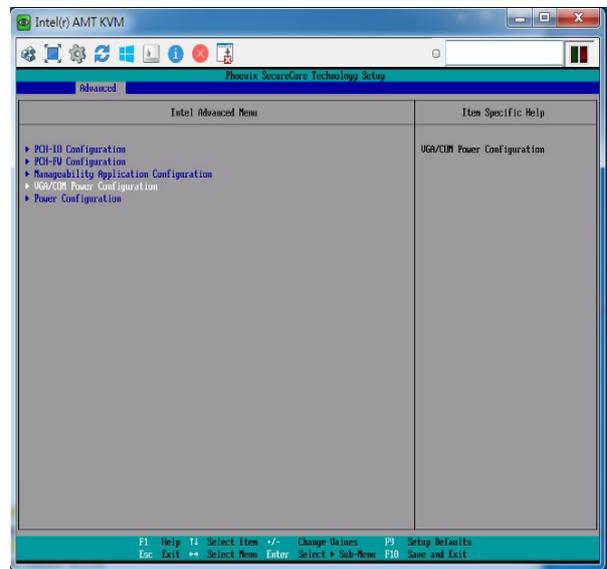
Cash Drawer Power Setting

Function	JP4				
▲ +19V	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3				
2	4				
+12V	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3				
2	4				

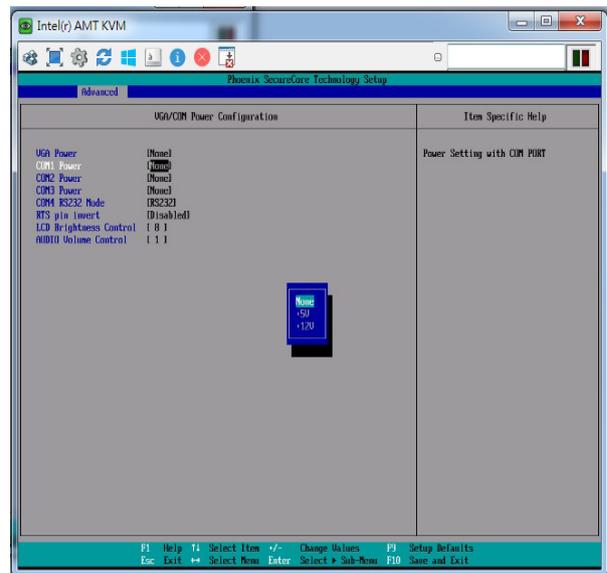
COM1/COM2/COM3 Power Setting

COM1, COM2 and COM3 can be set to provide power to your serial device. The voltage can be set to +5V or +12V in the BIOS.

1. Power on the system, and press the key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power Configuration** Ports and press <Enter> to go to display the available options.



4. To enable the power, select COM1, COM2 or COM3 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



▲ = Manufacturer Default Setting

LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP3
		Bits	Channel		
1	800 x 600	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
2	800 x 600	24	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
3	1024 x 768	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
4	1024 x 768	24	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
5	1366 x 768	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
6	1366 x 768	24	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
7	1024 x 600	18	Single	LVDS Panel	1 3 5 7 9 2 4 6 8 10
8	1280 x 1024	24	Dual	LVDS Panel	1 3 5 7 9 2 4 6 8 10
9	1440 x 900	24	Dual	LVDS Panel	1 3 5 7 9 2 4 6 8 10
15	1920 x 1080	24	Dual	LVDS Panel	1 3 5 7 9 2 4 6 8 10
				CRT	1 3 5 7 9 2 4 6 8 10

1
2

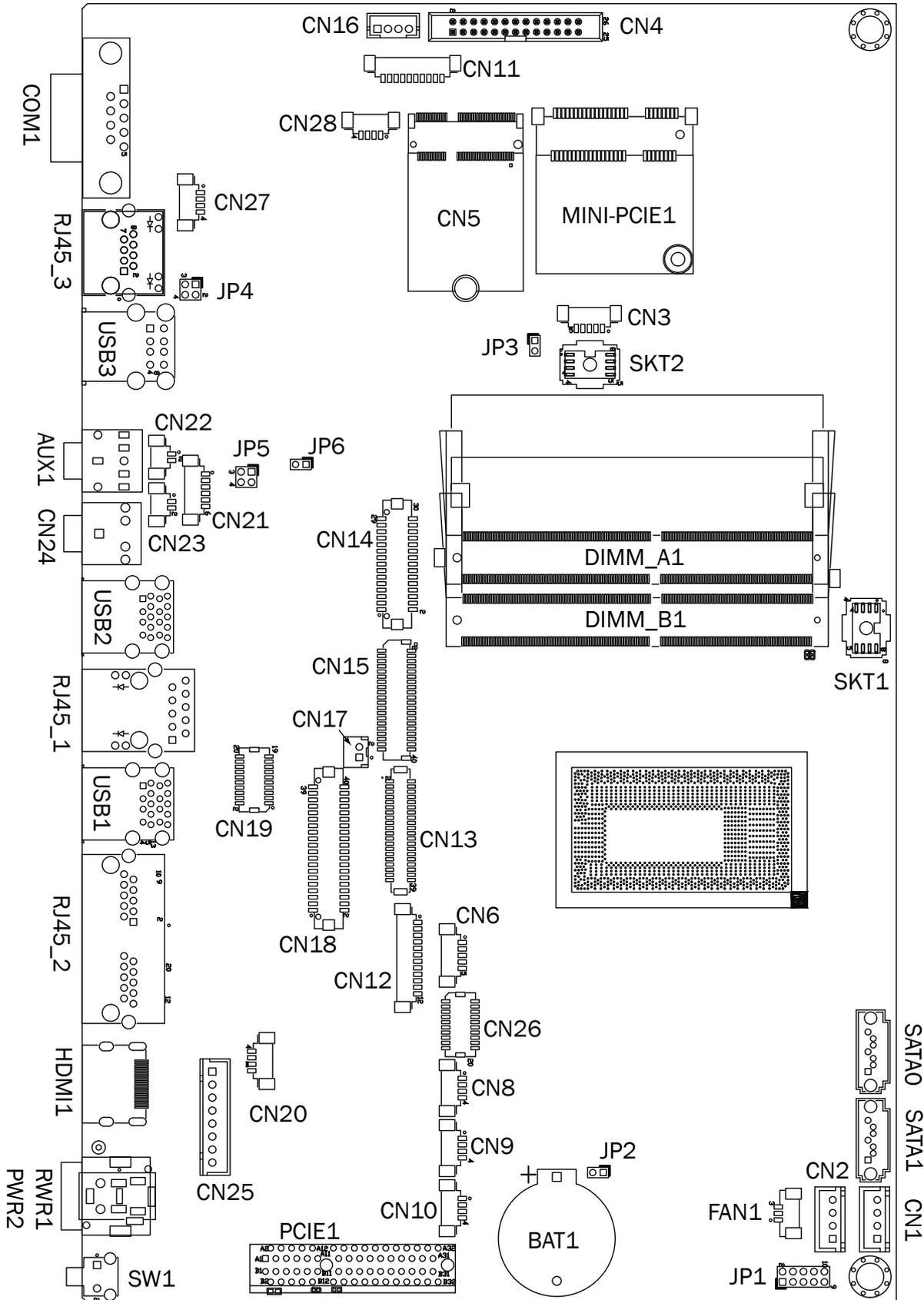
Jumper open

1
2

Jumper short

5-5. 5040 Motherboard

5-5-1. Motherboard Layout



5-5-2. Connectors & Functions

Connector	Function
CN1/2	SATA power connector
CN3	EC debug port
CN4	Printer connector
CN5	M.2 WiFi socket
CN6	SDV connector
CN8/9/10	USB2.0 connector
CN11	COM4 connector
CN12	Inverter connector
CN13	eDP connector
CN14	Bedside connector
CN15	DP/HDMI Connector
CN16	DICOM Connector
CN17	DICOM for LVDS_VDD_EN
CN18	LVDS connector
CN19	SDR connector
CN20	ON/OFF & Power LED connector
CN21	Build in Speaker/MIC connector
CN22	Build in speaker(left)
CN23	Build in speaker(right)
CN24	Audio jack
CN25	Charger board power connector
CN26	Charger board function connector
CN27/28	LAN2 LED connector for by pass no isolator
PCIE1	PCIE X4 slot connector
FAN1	FAN connector
HDMI	HDMI connector
AUX1	MIC in jack
PWR1/PWR2	DC Jack
RJ11_1	Cash drawer connector
RJ45_1	LAN1 connector
RJ45_2	COM1/COM2_RS232/422/485
RJ45_3	LAN2 connector
DiMM_A1 / DIMM_B1	DDR4 SO-DIMM
SATA0/SATA1	SATA connector
BAT1	Battery socket
USB1/USB2	USB3.0
USB3	Isolator USB connector
COM1	CRT connector
SW1	Power button
MINI_PCIE1	Mini PCIe WiFi socket
JP1	LCD ID setting
JP2	Clear CMOS
JP3	Hardware reset
JP4/5	isolator USB speed select
JP6	Audio Mono setting

5-5-3. Jumper Setting

Isolator USB(up port) speed select

Function	JP4	JP5								
USB1.0	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3									
2	4									
1	3									
2	4									
▲ USB1.1	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3									
2	4									
1	3									
2	4									

Isolator USB(down port) speed select

Function	JP4	JP5								
USB1.0	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3									
2	4									
1	3									
2	4									
▲ USB1.1	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	2	4
1	3									
2	4									
1	3									
2	4									

Audio Mono select

Function	JP6		
Mono	<table border="1"> <tr><td>1</td></tr> <tr><td>2</td></tr> </table>	1	2
1			
2			
▲ Standard	<table border="1"> <tr><td>1</td></tr> <tr><td>2</td></tr> </table>	1	2
1			
2			

LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP1										
		Bits	Channel												
14	1920 x 1080	24	Dual	LVDS Panel	<table border="1"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											
15	1920 x 1080	24	Dual	LVDS Panel	<table border="1"> <tr><td>1</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr> </table>	1	3	5	7	9	2	4	6	8	10
1	3	5	7	9											
2	4	6	8	10											

1
2

 Jumper open

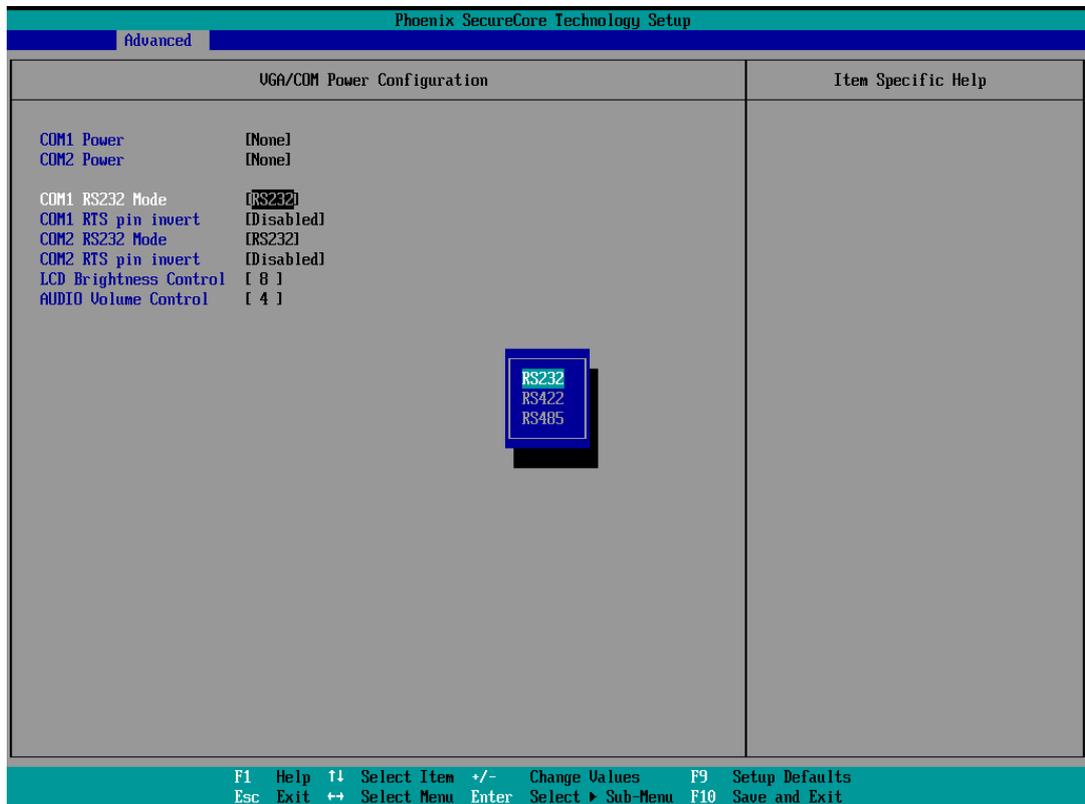
1
2

 Jumper short

▲ = Manufacturer Default Setting

COM1/COM2 Power Setting

COM1, COM2 can be set to provide power to your serial device. The voltage can be set to +5V or +12V in the BIOS.



1. Power on the system, and press the key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power Configuration** Ports and press <Enter> to go to display the available options.
4. To enable the power, select COM1 ,COM2 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.