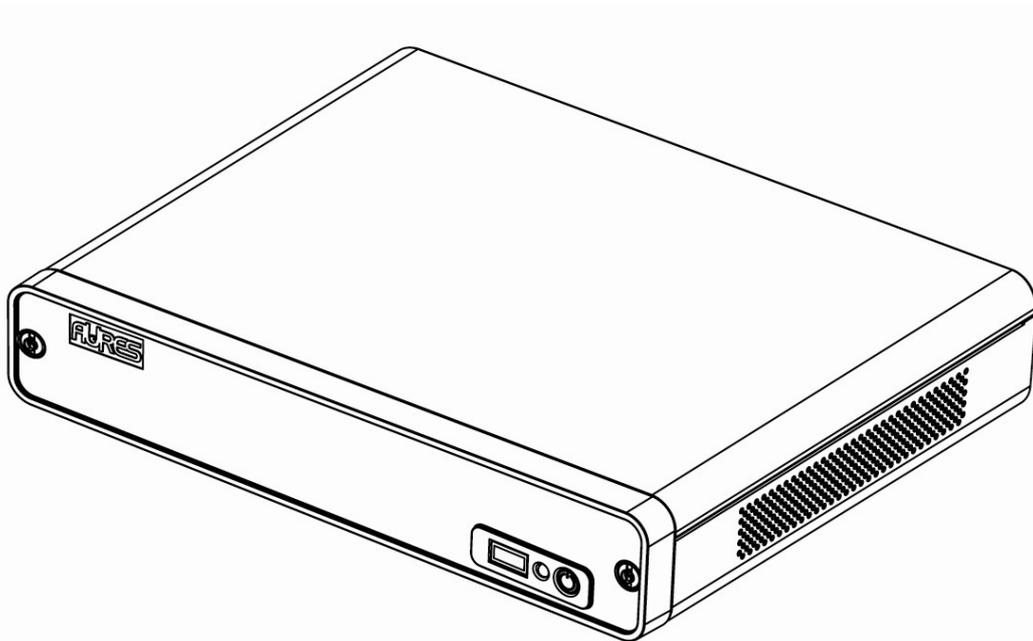


User Manual

Version 1.0 June 2014

INEOS 900

INEOS 950



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Manual Version 1.0

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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.

CE MARK



This device complies with the requirements of the EEC directive 2004/108/EC with regard to “Electromagnetic compatibility” and 2006/95/EC “Low Voltage Directive”

FCC

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.

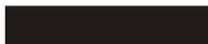
4.7.3.2 Materials for fire enclosures

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

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 dustbin 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

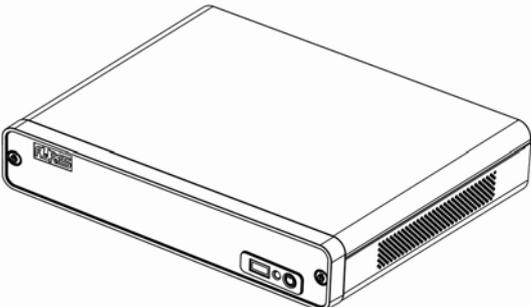
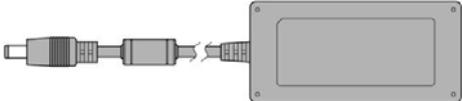
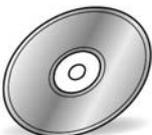
Revision	Date	Description
V 1.0	June, 2014	● Initial release

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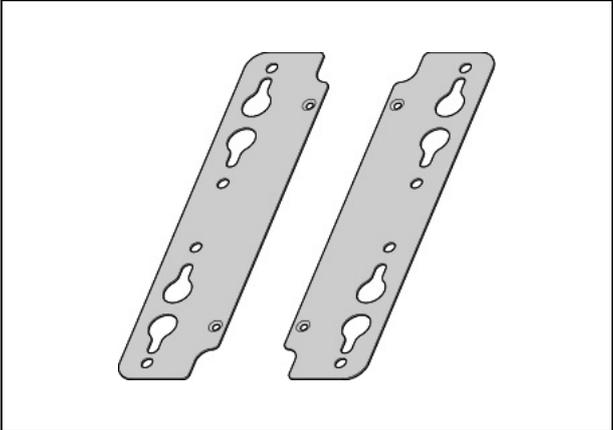
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1 Item Checklist

1-1 Standard Items

	
a. System	b. RJ45-DB9 cable (x4)
	
c. Power adapter	d. Power cord
	
e. Manual CD	

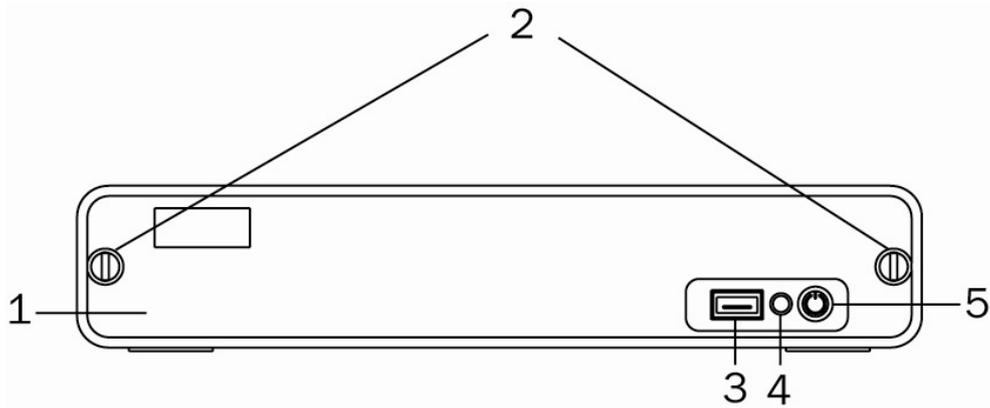
1-2 Optional Items



a. Wall Mount Kits (x2)

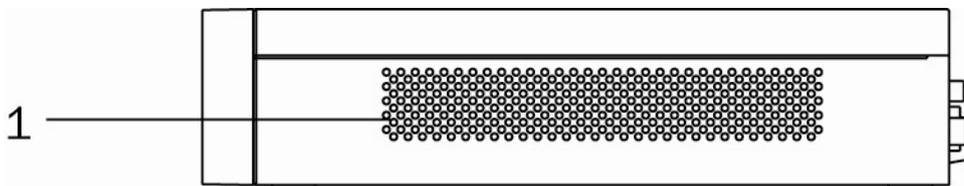
2 System View

2-1 Front View



No	Description
1	Front cover
2	Slotted screw
3	USB
4	Indicator LED (Green)
5	Power button

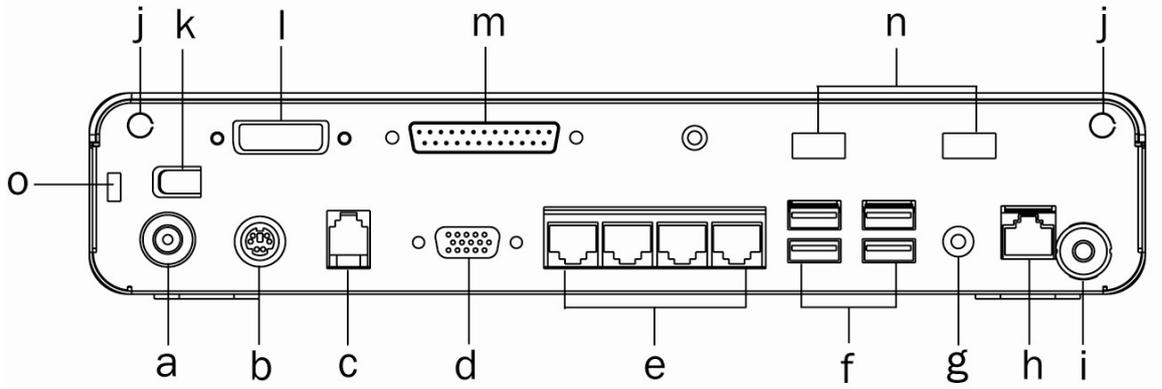
2-2 Side View



No.	Description
1	Ventilation hole

2-3 I/O View

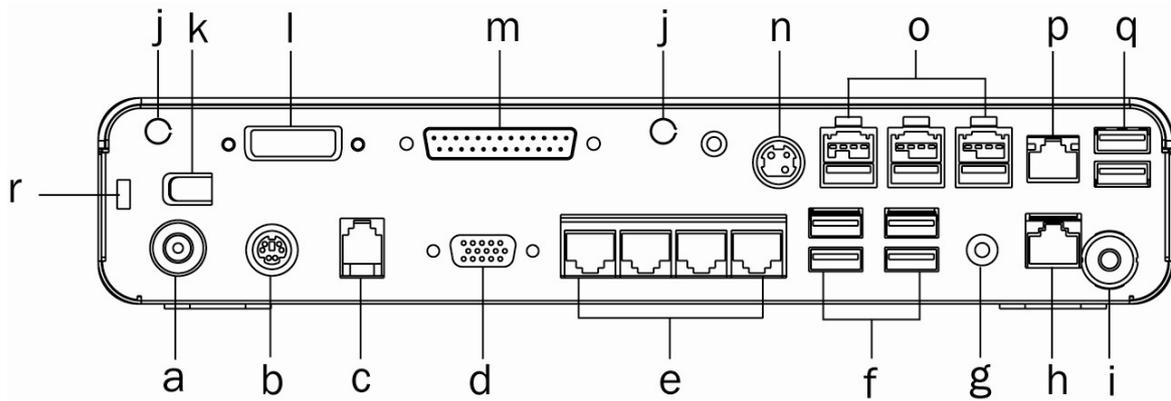
INEOS 900



No.	Description
a	DC IN 19V
b	PS/2
c	Cash drawer port
d	VGA
e	COM1~4 (from left to right)
f	USB x4
g	Line-out
h	LAN
i	Power button
j	Antenna hole
k	Cable clamp
l	DVI-D (option)
m	Parallel (LPT1)
n	USB x2
o	Kensington lock

Note: The maximum current that can be drawn from each COM port is 500 mA.

INEOS 950

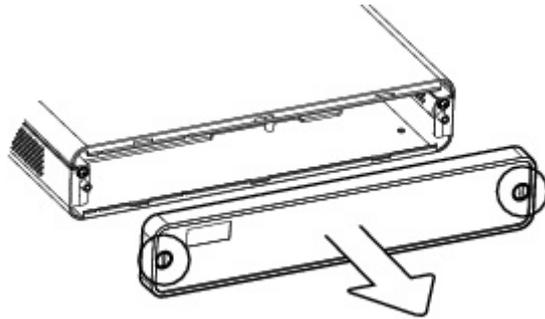


No.	Description
a	DC IN 19V
b	PS/2
c	Cash drawer port
d	VGA
e	COM1~4 (from left to right)
f	USB x4
g	Line-out
h	LAN
i	Power button
j	Antenna hole
k	Cable clamp
l	DVI-D
m	Parallel (LPT1)
n	DC OUT 24V
o	Power USB x3
p	LAN
q	USB x2
r	Kensington lock

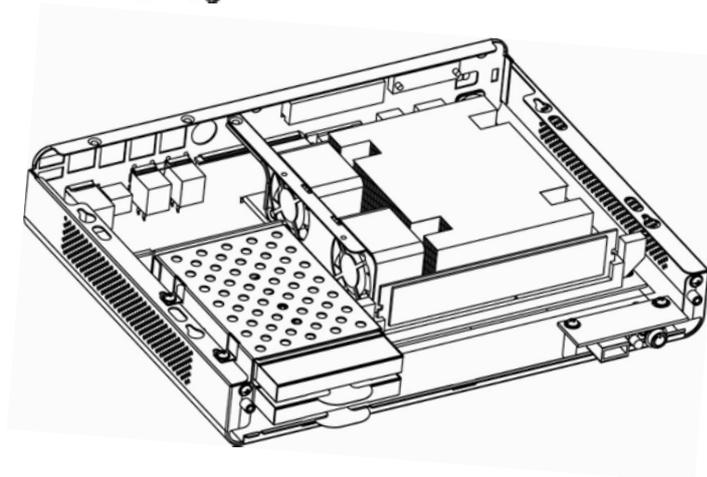
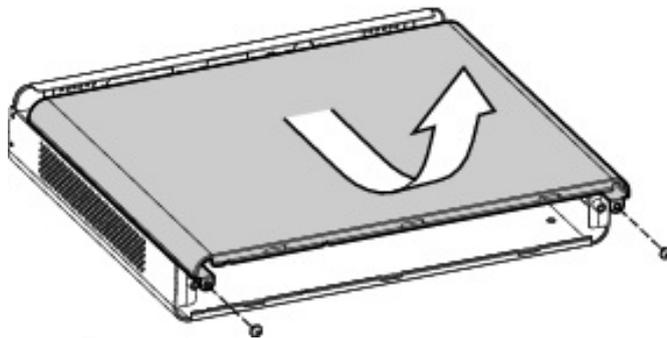
Note: The maximum current that can be drawn from each COM port is 500 mA.

3 System Assembly & Disassembly

3-1 Remove the Top Cover

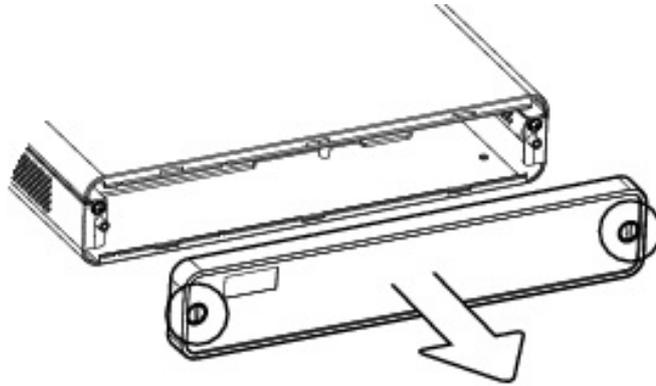


1. Remove the screws (x2) to release the front cover.

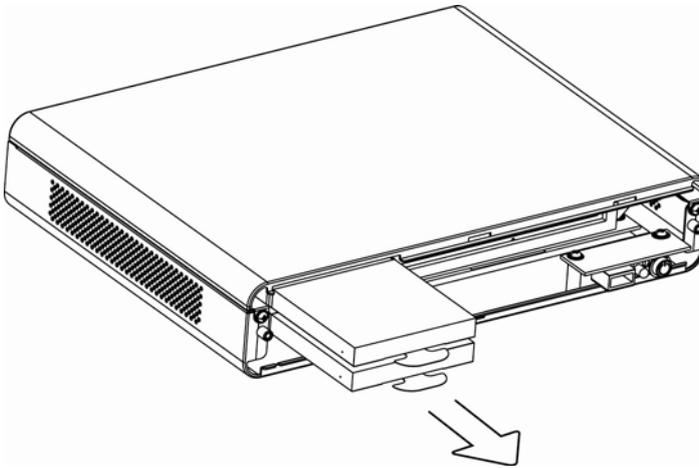


2. Remove the screws (x2).
3. Slide the top cover outwards.

3-2 Replace the HDD



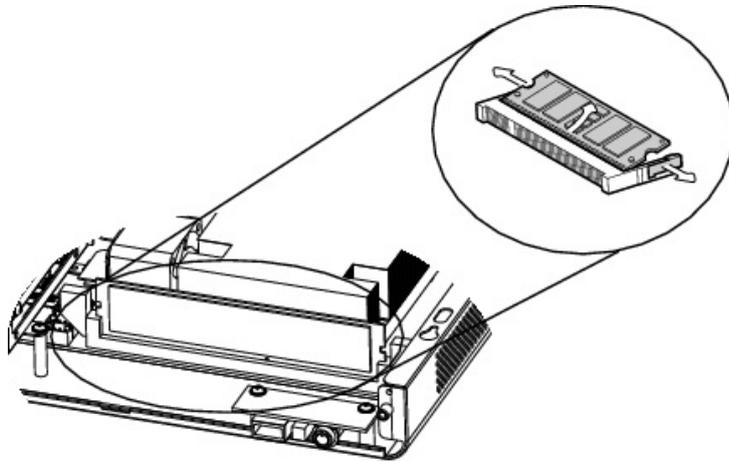
1. Remove the screws (x2) to release the front cover.



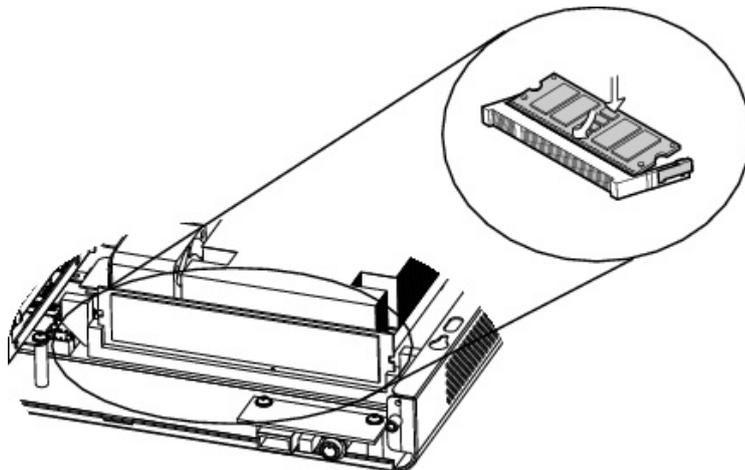
2. Pull the HDD from the system. For easier removal pull the plastic puller (see picture) at the same time.
- * There are two HDD bays in the system. The system may come with one or both HDDs (or SSDs) installed.

3-3 Remove the RAM Module

To replace the RAM, please remove the top cover as described in Chapter 3-1



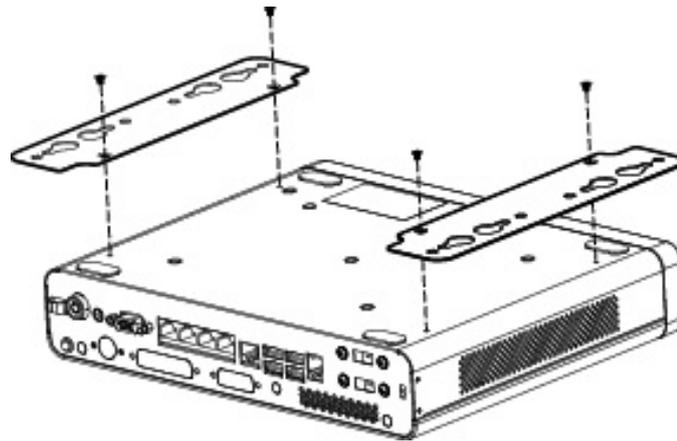
1. Flip the ejector clips outwards to remove the memory module from the memory slot.



2. To install a RAM module, slide the memory module into the memory slot and press down until the ejector clips snap in to place.

4 Peripheral Installation

4-1 Wall Mounting Kits Installation

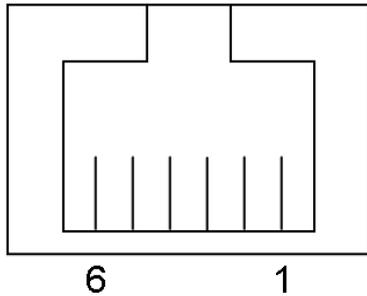


1. Turn over the system and fasten the screws (x4) as shown in the picture.

4-2 Cash Drawer Installation

You can install a cash drawer through the cash drawer port. Please verify the pin assignment before installation.

Cash Drawer Pin Assignment



Pin	Signal
1	GND
2	DOUT bit0
3	DIN bit0
4	12V / 19V
5	DOUT bit1
6	GND

Cash Drawer Controller Register

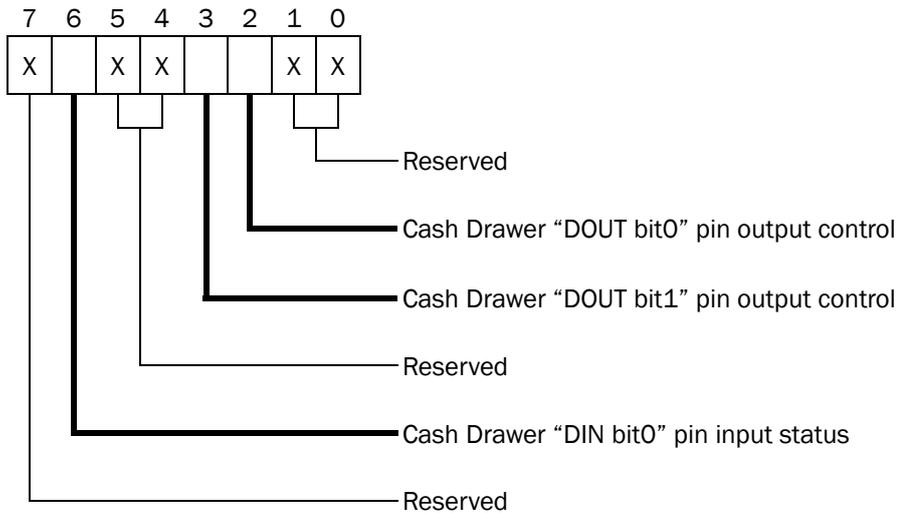
The Cash Drawer Controller use one I/O addresses to control the Cash Drawer.

Register Location: 48Ch

Attribute: Read / Write

Size: 8bit

BIT	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
Attribute	Reserved	Read	Reserved	Reserved	Write	Reserved	Reserved	Reserved



Bit 7: Reserved

Bit 6: Cash Drawer "DIN bit0" pin input status.

= 1: the Cash Drawer closed or no Cash Drawer

= 0: the Cash Drawer opened

Bit 5: Reserved

Bit 4: Reserved

Bit 3: Cash Drawer "DOUT bit1" pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Bit 2: Cash Drawer "DOUT bit0" pin output control.

= 1: Opening the Cash Drawer

= 0: Allow close the Cash Drawer

Bit 1: Reserved

Bit 0: Reserved

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

Cash Drawer Control Command Example

Use Debug.EXE program under DOS or Windows98

Command	Cash Drawer
O 48C 04	Opening
O 48C 00	Allow to close
<p>➤ Set the I/O address 48Ch bit2 =1 for opening Cash Drawer by "DOUT bit0" pin control.</p> <p>➤ Set the I/O address 48Ch bit2 = 0 for allow close Cash Drawer.</p>	

Command	Cash Drawer
I 48C	Check status
<p>➤ The I/O address 48Ch bit6 =1 mean the Cash Drawer is opened or not exist.</p> <p>➤ The I/O address 48Ch bit6 =0 mean the Cash Drawer is closed.</p>	

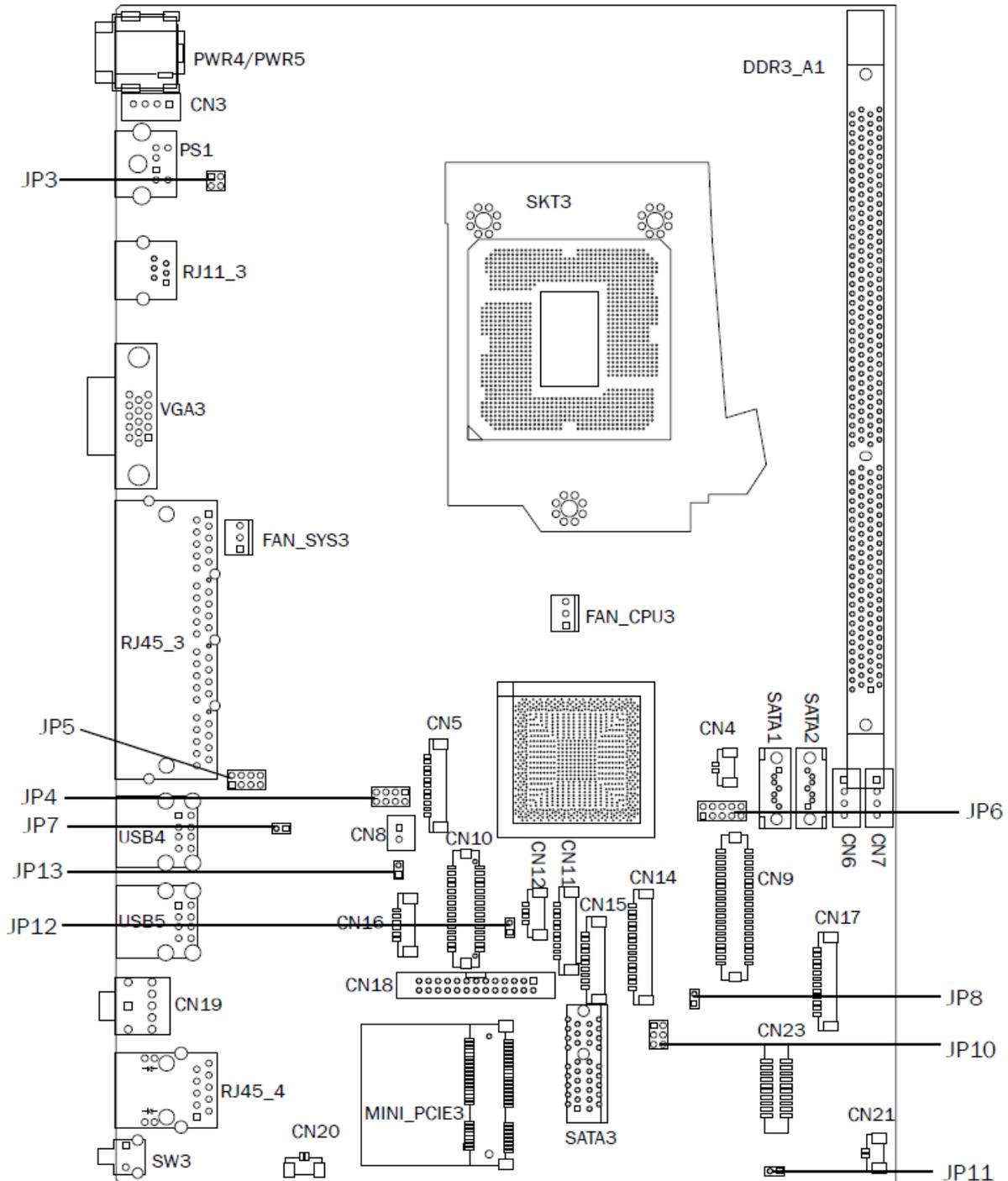
5 Specification

Model Name	INEOS 900	INEOS 950
Motherboard	C65	
CPU	Intel Sandy Bridge CPU, LGA 1155-pin, 32nm Pentium G630T 2.3G, L2 3M, 35W	Intel Sandy Bridge CPU, LGA 1155-pin, 32nm i3-2120 3.3G, L2 3M, TDP 65W,
Chipset	Intel® PCH Cougar Point, 6.1W, H61 (SATA Generation 2.0/ No RAID)	Intel® PCH Cougar Point, 6.1W, Q67 (SATA Generation 3.0/ RAID 0/1)
System Memory	Long-DIMM DDR3 x 1, 1066/1333 MHz, 2GB, max. 8GB	
Graphic Memory	Intel HD Graphics, Integrated in CPU, frequency 850MHz, (dynamic frequency up to 1.1G)	
Storage		
HDD	2 x HDD bay for HDD, 320 GB and up	2 x HDD bay for HDD, 320 GB and up
Flash Memory	SSD 16/32/64 GB instead of HDD (option)	
Front I/O Ports		
USB	1 (USB2.0)	
Power Button	1	
Indicator LED (Green)	1	
Rear I/O Ports		
USB 2.0	6 (USB 2.0)	
Serial / COM	RJ45 COM x4 (COM1 /COM 2 standard RS-232, COM3/COM4 powered COM with enable option in BIOS. Power on pin 9 (DB9)/ pin 10 (RJ45) selectable to +5V / 12V by jumper on the motherboard. Default setting: +5V)	
Line out	1	
Parallel	1	1
LAN	1 x RJ45 (10/100/1000 Mbps Giga LAN)	
DC Jack	1 (2 pin)	
VGA	1	
DVI-D	1 (option)	1
Cash Drawer Port	1 x RJ-11 (12V or 19V, selection by jumper. Default setting: 19V)	
PS/2	1	
Kensington Lock	1	
Power		
Power	External 19V/120W power adapter	

Expansion	
Power USB module	N/A 24V powered USB 2.0 x 1 12V powered USB 2.0 x 2 5V standard USB 2.0 x 1 Second LAN port 24V receipt printer port
Wireless LAN	half-size miniCARD type (PCI-E), 802.11 b/g/n wireless LAN card & external antenna half-size miniCARD type (PCI-E), 802.11 b/g/n wireless LAN card & external antenna (Choose either wireless or 2nd LAN)
Wall Mount Kit	1
Environment	
EMC & Safety	FCC Class A, CE, LVD
Operating Temperature	0°C ~ 35 °C (32°F ~ 95 °F)
Storage Temperature	-20 °C ~ 60 °C (-4 °F ~ 140 °F)
Operating Humidity	20% ~ 85% RH non condensing
Storage Humidity	20% ~ 85% RH non condensing
Dimension (W x D x H)	270 X 220 x 50mm
Weight (N.W./G.W.)	2.6Kg / 3.6Kg
OS Support	Windows® XP Professional, POSReady 2009, Windows XP Embedded, Windows XP Professional for Embedded, Windows 7, Linux, POSReady7

6 Configuration

6-1 C65 Motherboard Layout



Version: C65 V1.0

6-2 Connectors & Functions

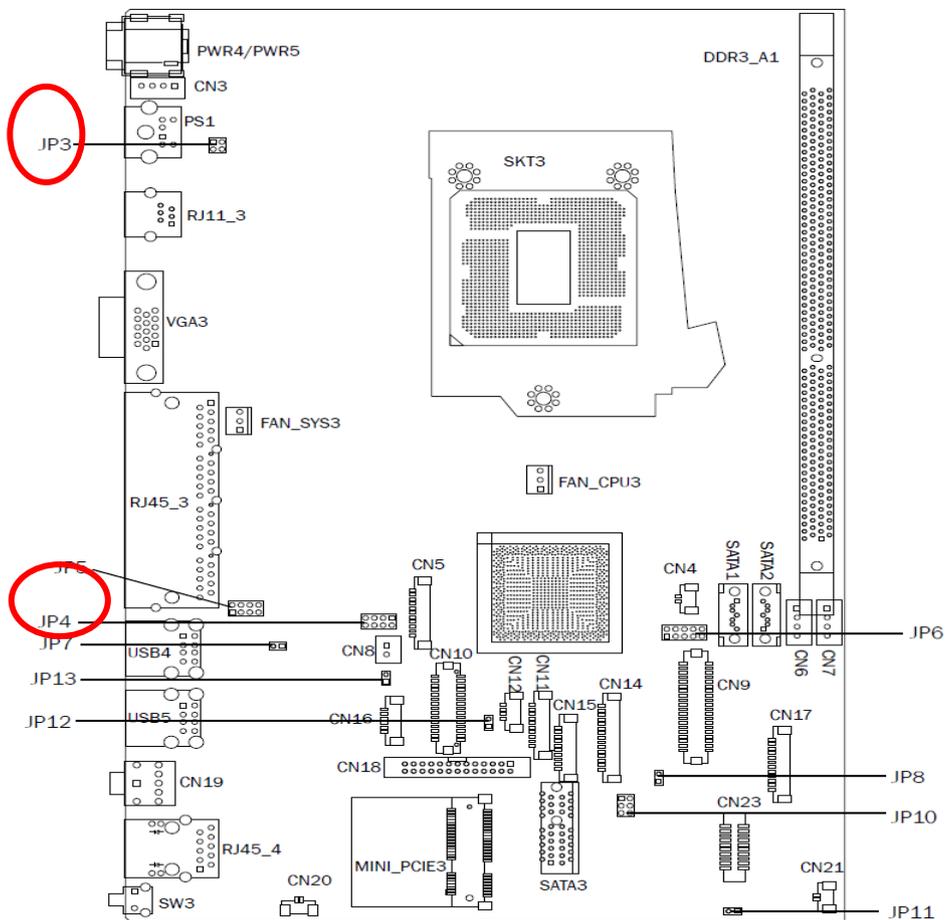
Connector	Function
CN6/CN7	HDD Power CONN
CN8	Power Button
CN10	DVI CONN
CN11	To Front I/O Board
CN12	USB CONN
CN18	Printer CONN
CN19	Line Out
CN20	Battery CONN
DDR3_A1	DDR3 DIMM1
FAN_CPU3	CPU FAN CONN
FAN_SYS3	SYSTEM FAN CONN
PS1	PS2 Port
PWR3/4/5	DC-JACK
RJ11_3	Cash Drawer Port
RJ45_3	COM1~4 Port
RJ45_4	LAN Port
SATA1/2	SATA CONN
SATA3	To SATA Docking Board
SW3	Power Button
USB4/5	USB Port
VGA3	VGA Port
JP3	Cash Drawer Power Setting
JP5	COM3/COM4 Power Setting
JP12	ME Update

6-3 Jumper Setting

Cash Drawer Power Setting

Function	JP3 (1-2) (3-4)								
▲ 19V/24V	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>■</td><td>□</td></tr> <tr><td>■</td><td>□</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	■	□	■	□	2	4
1	3								
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■	□								
2	4								
12V	<table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>□</td><td>■</td></tr> <tr><td>□</td><td>■</td></tr> <tr><td>2</td><td>4</td></tr> </table>	1	3	□	■	□	■	2	4
1	3								
□	■								
□	■								
2	4								

▲ = Manufacturer Default Setting □ OPEN ■ SHORT



COM3 & COM4 Power Setting

COM3 and COM4 can be set to provide power to your serial device.

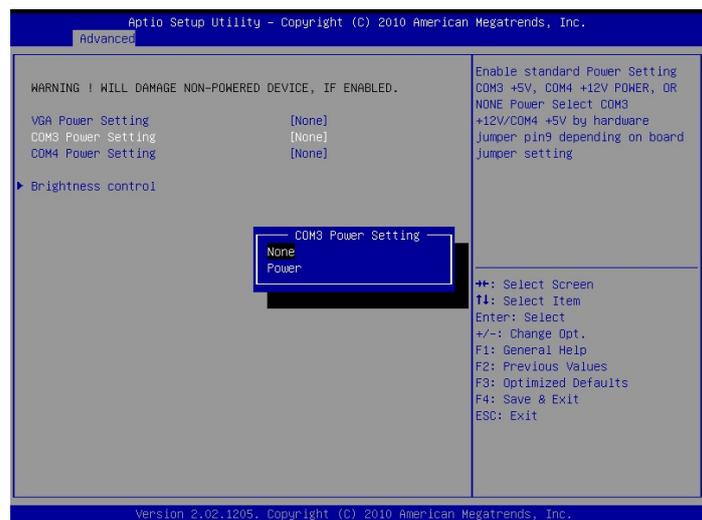
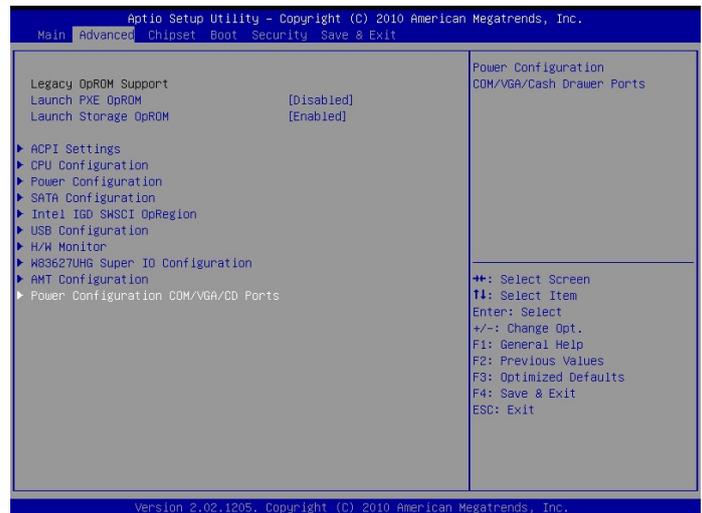
The voltage can be set to +5V or 12V by setting jumper JP9 on the motherboard.

When enabled, the power is available on pin 10 of the RJ45 serial connector.

If you use the serial RJ45 to DB9 adapter cable, the power is on pin 9 of the DB9 connector. By default, the power option is **disabled** in the BIOS.

Enable COM3/COM4 power in 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 **Power Configuration COM/VGA** Ports and press <Enter> to display the available options.
4. To enable the power, select COM3 Power Setting or COM4 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



COM3~COM4 Power Setting

Function	JP5 (1-2) (3-4) (5-6) (7-8)												
▲ COM3 5V	<table border="1"> <tr><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>■</td><td>□</td><td>□</td><td>□</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td></tr> </table>	1	3	5	7	■	□	□	□	2	4	6	8
1	3	5	7										
■	□	□	□										
2	4	6	8										
COM3 12V	<table border="1"> <tr><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>□</td><td>■</td><td>□</td><td>□</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td></tr> </table>	1	3	5	7	□	■	□	□	2	4	6	8
1	3	5	7										
□	■	□	□										
2	4	6	8										
▲ COM4 5V	<table border="1"> <tr><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>□</td><td>□</td><td>■</td><td>□</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td></tr> </table>	1	3	5	7	□	□	■	□	2	4	6	8
1	3	5	7										
□	□	■	□										
2	4	6	8										
COM4 12V	<table border="1"> <tr><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>□</td><td>□</td><td>□</td><td>■</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>8</td></tr> </table>	1	3	5	7	□	□	□	■	2	4	6	8
1	3	5	7										
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2	4	6	8										

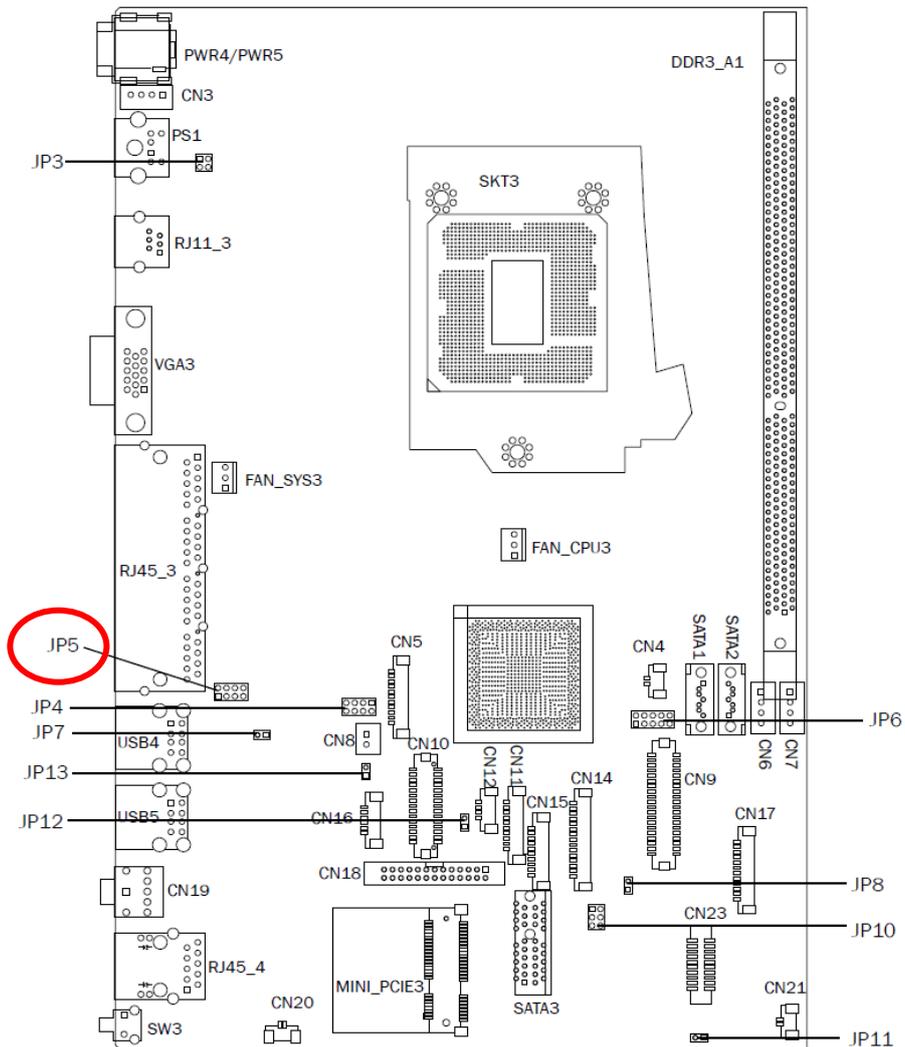
▲ = Manufacturer Default Setting



OPEN



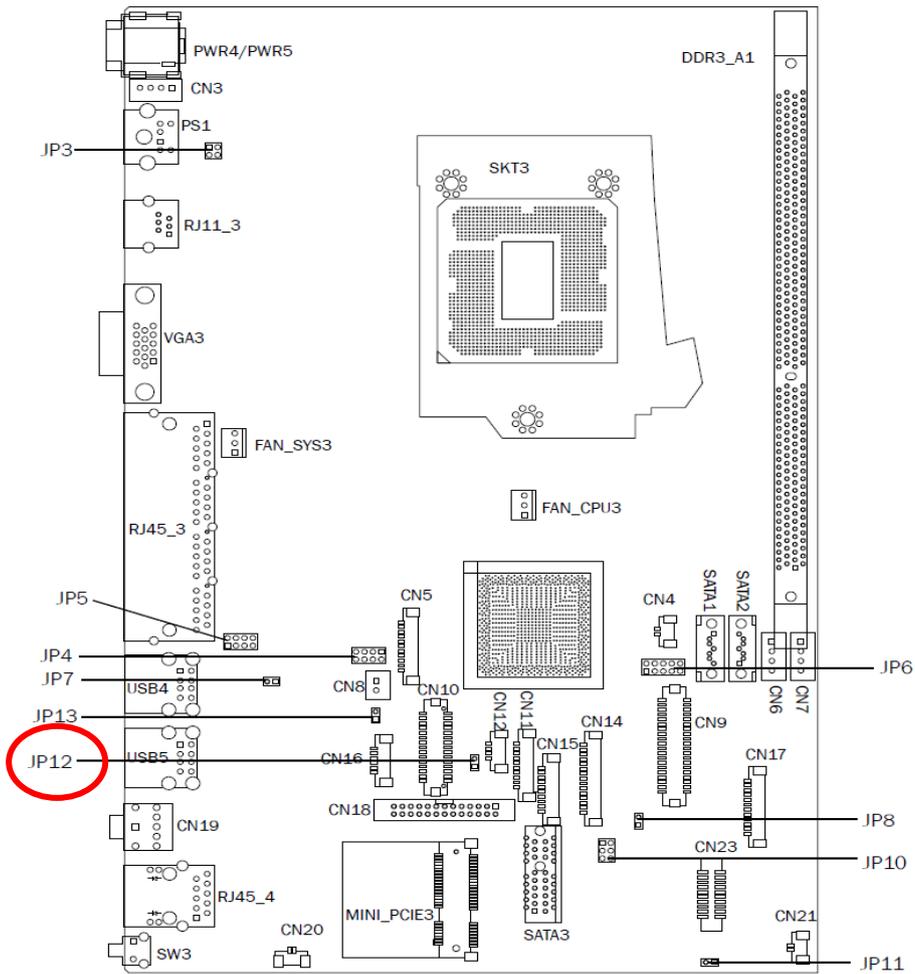
SHORT



ME update

Function	JP12 (1-2)
▲ Lock	<div style="display: flex; flex-direction: column; align-items: center;"> 1 <div style="border: 1px solid black; width: 10px; height: 10px; margin: 2px;"></div> <div style="border: 1px solid black; width: 10px; height: 10px; margin: 2px;"></div> 2 </div>
Un-Lock	<div style="display: flex; flex-direction: column; align-items: center;"> 1 <div style="background-color: black; width: 10px; height: 10px; margin: 2px;"></div> <div style="background-color: black; width: 10px; height: 10px; margin: 2px;"></div> 2 </div>

▲ = Manufacturer Default Setting  OPEN  SHORT



Appendix: Driver Installation

To download the most recent drivers and utilities, and obtain advice regarding the installation of your equipment, please visit the AURES Technical Support Website:

www.ares-support.fr (French)

www.ares-support.fr/UK (English)

www.ares-support.fr/GE (German)