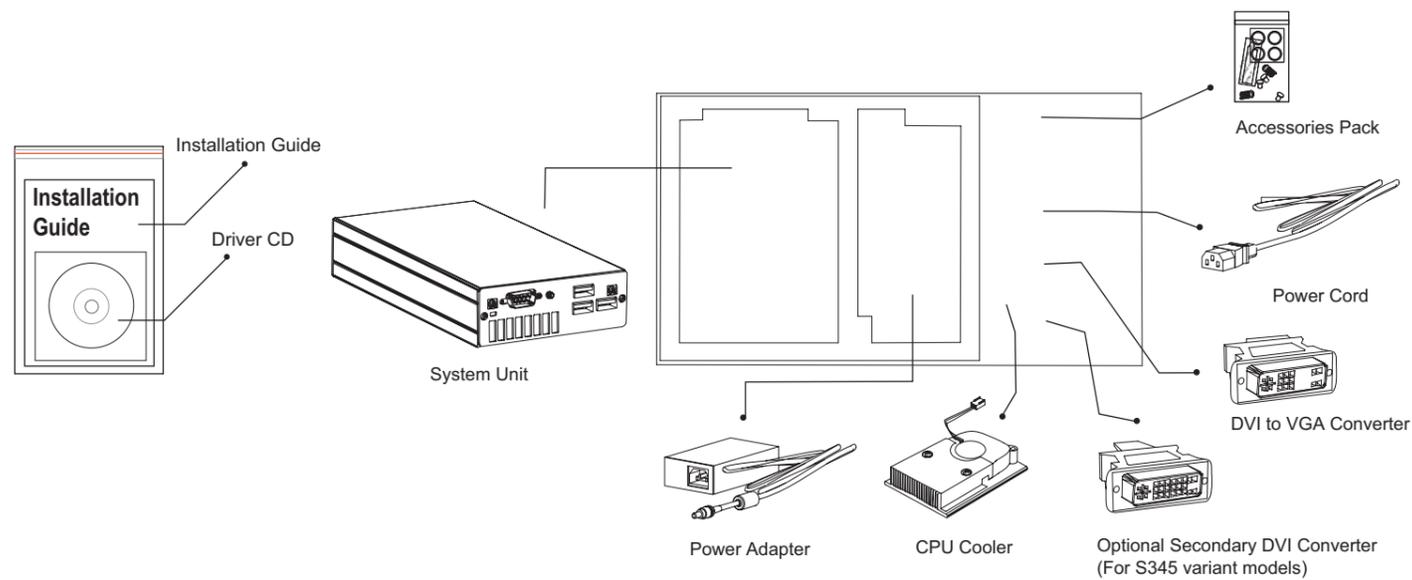


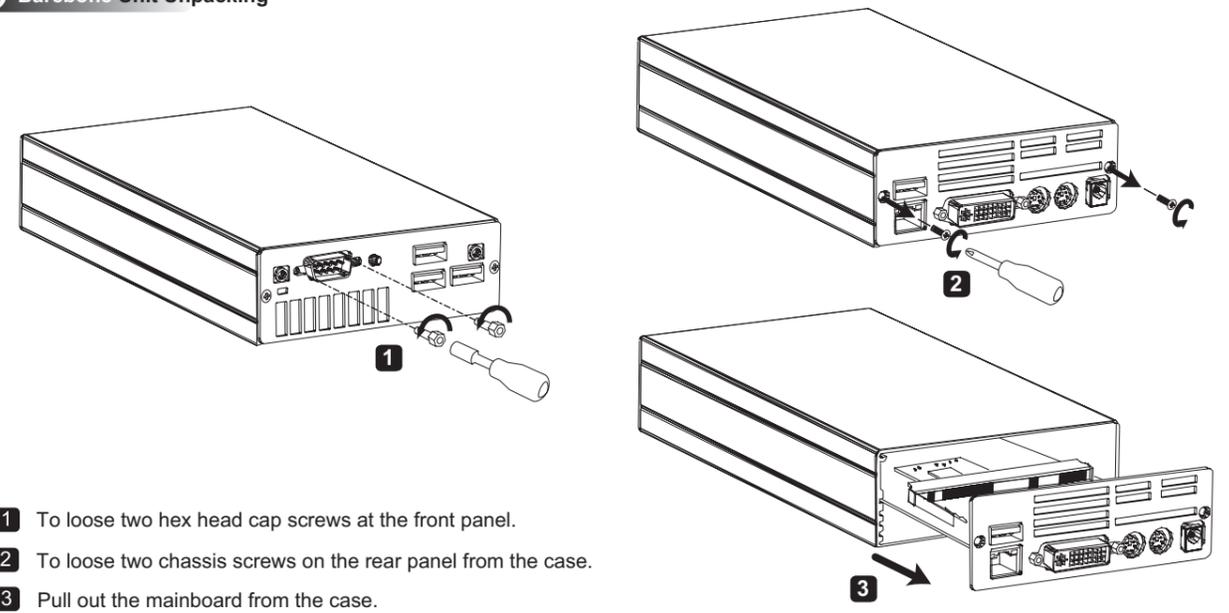
INSTALLATION GUIDE

M5345A

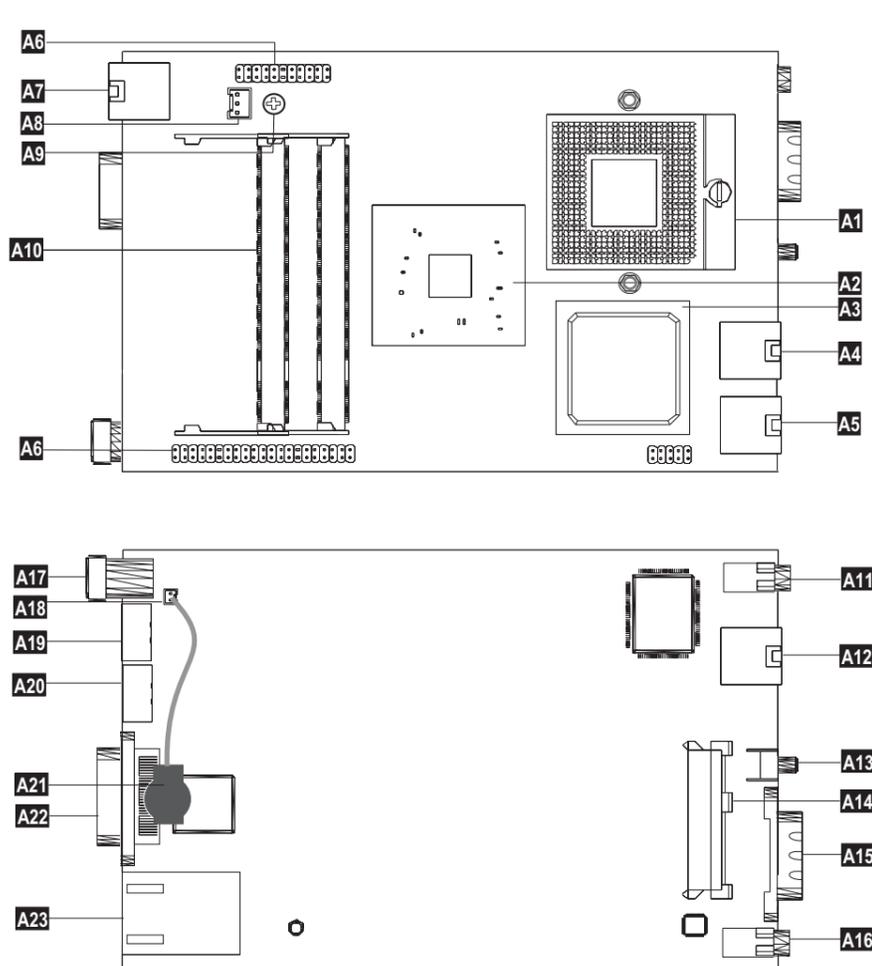
Item Checklist



Barebone Unit Unpacking



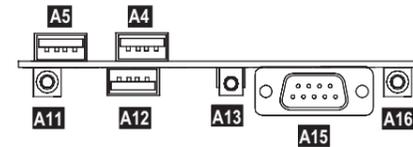
Mainboard and Optional Daughter Boards' Layout



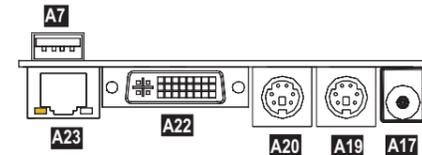
A1	CPU socket
A2	Intel GM45 north chip
A3	Intel ICH9M south chip
A4	Front USB port
A5	Front USB port
A6	Multi-function adapter slots
A7	Rear USB port
A8	CPU cooling fan connector
A9	HDD Screw
A10	DDR3 SODIMM slots
A11	Line-out phone jack
A12	Front USB port
A13	Power button
A14	SATA HDD/SSD connector
A15	Primary COM port
A16	Mic-in phone jack
A17	DC-12V power input
A18	Battery connector
A19	PS/2 mouse port
A20	PS/2 keyboard port
A21	CMOS battery
A22	DVI-I port
A23	GigaLAN port

B1	Optional secondary COM port
B2	Optional PCI express card slot
B3	Optional giga LAN
B4	Optional Secondary DVI port
B5	Optional USB ports
B6	Optional mini PCIe slot

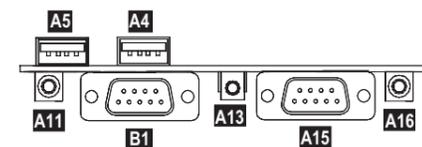
Standard IO port alignment at front panel (S345)



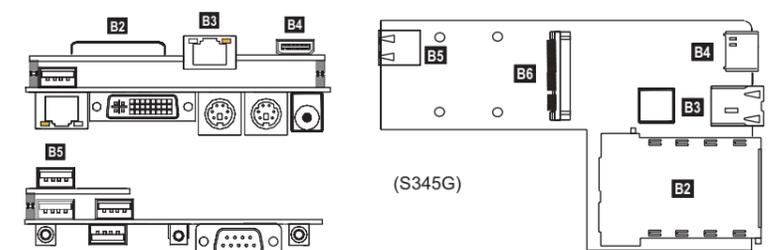
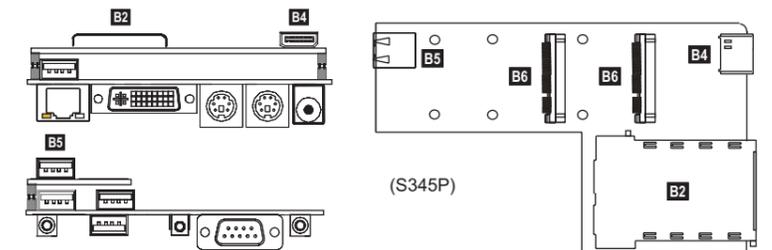
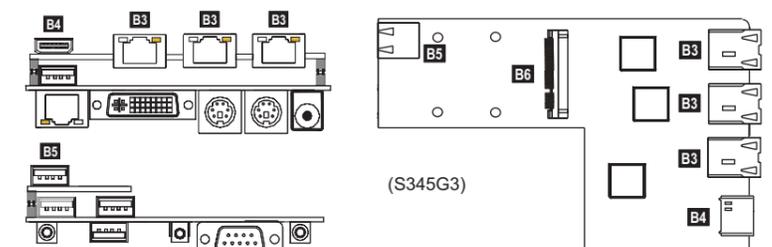
Standard IO port alignment at rear panel (S345, S345S)



Dual COM ports alignment at front panel (S345S)



Optional IO Ports (For S345 variant models)



Hardware Installation

Part List

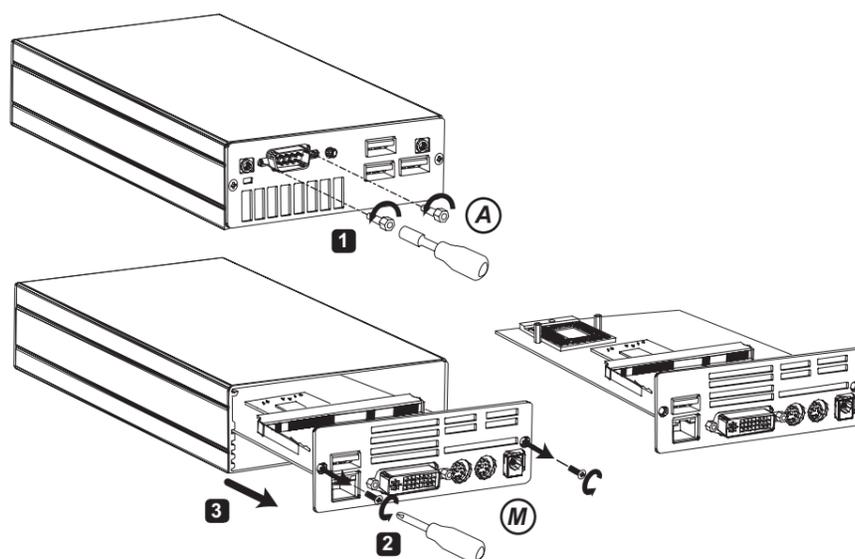
- (A)** COM/DVI Hex Head Cap Screws (* 4)
- (B)** Front Panel
- (C)** Rear Panel
- (D)** Case
- (E)** Mainboard
- (F)** CPU Cooler
- (G)** Power Adapter
- (H)** Power Cord
- (I)** DVI to VGA Converter
- (J)** Optional Multi-Function Daughter Board (For S345 variant models)
- (K)** Optional Secondary DVI Converter (For S345 variant models)

Accessories Pack

- (A)** Hex Head Cap Screws * 2 (* 4 for S345S)
- (L)** Case Screws * 2
- (M)** CPU Cooler Screws * 2
- (N)** CPU Cooler Paste * 1
- (O)** Rubber Stand * 4
- (P)** Mini card screw * 2 or 4 (For S345 variant models)
- (Q)** Mini card spacer and fastener * 4 or 8 (For S345 variant models)

STEP 1

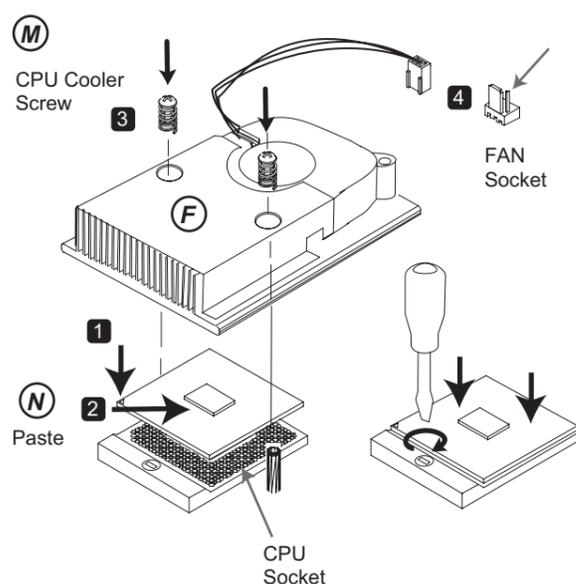
Unpacking (Installing) Motherboard from (to) the chassis



- 1** To loose (fasten) hex head cap screws at the front panel.
- 2** To loose (drive) two chassis screws at the rear panel.
- 3** Pull out (slide in) the motherboard from (into) the case.

STEP 3

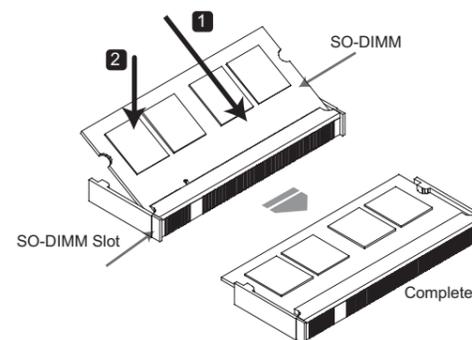
Installing CPU



- 1** Seat the CPU into the socket. Match socket pin 1 and CPU cut edge. **Punch the CPU by a little force on the socket then closing the socket actuator with a screwdriver.**
- 2** Glue the heatsink compound on the CPU die surface.
- 3** Install CPU cooler on the top of CPU. Tighten CPU cooler with screws into pillaret.
- 4** Connecting CPU FAN plug to mainboard CPU FAN socket.

STEP 2

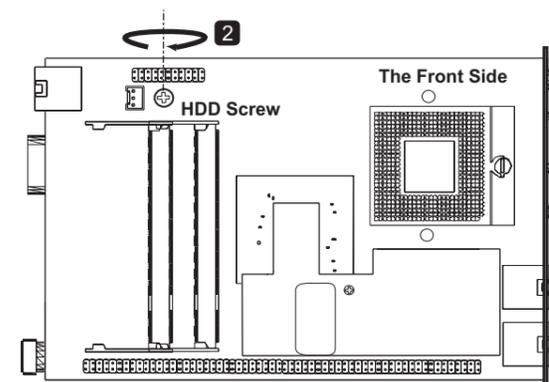
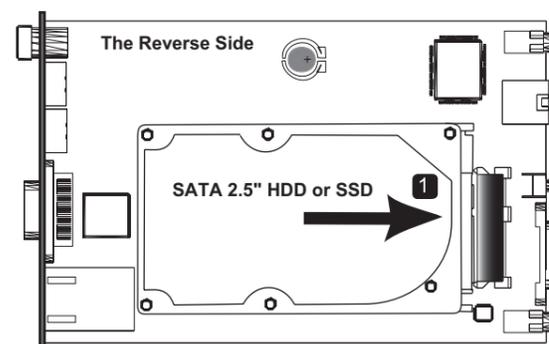
Installing Memory



- 1** Insert SO-DIMM into the SO-DIMM slot on the motherboard by 30°.
- 2** Push down the SO-DIMM onto DIMM slot.

STEP 4

Installing 2.5" SATA HDD or SSD



- 1** Insert 2.5" SATA HDD or SSD to the SATA connector on the reverse side of mainboard.
- 2** Turnover the mainboard and drive the screw at the front side of mainboard to fasten the HDD.

WARNING

This equipment has been tested and found to comply with the limits for a Class B 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 residential installation. 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- * Reorient or relocate the receiving antenna.
- * Increase the separation between the equipment and receiver.
- * Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- * Consult the dealer or an experienced radio TV technician for help.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equivalent.

The system uses portion of casing for partial heat dissipation, the normal operating temperature of casing is between 35°C ~ 45°C in room temperature environment.