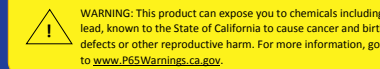


CONTACT INFORMATION

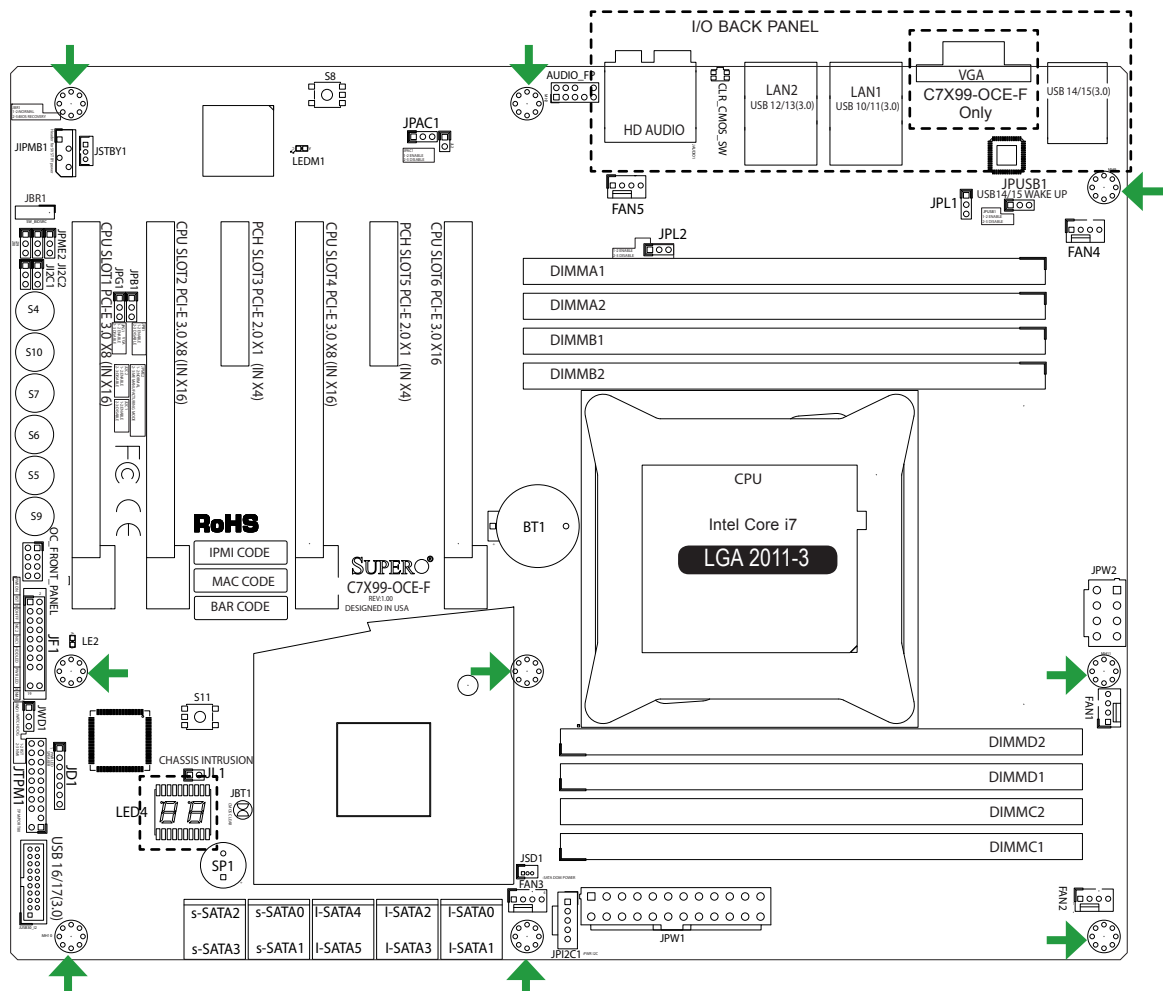
- www.supermicro.com (Email: support@supermicro.com)
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: <ftp://ftp.supermicro.com>
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS (Applies to individual-pack only)

- One (1) Supermicro Motherboard
- Six (6) SATA Cables (single packed/boxed only)
- Two (2) SATA Cables (bulk packed only)
- One (1) I/O Shield
- One (1) Quick Reference Guide
- One (1) Driver CD (C7X99-OCE single packed/boxed only)



Motherboard Layout and Features



 = mounting hole

Jumpers, Connectors and LED Indicators

Jumpers		
Jumper	Description	Default
JBT1*	Clear CMOS (on board)	(See Chpt. 2)
J1 ² C1/J1 ² C2	SMB to PCI Slots	Off (Disabled)
JPAC1	Audio Enable	Pins 1-2 (Enabled)
JPL1/JPL2	LAN1/LAN2 Enable	Pins 1-2 (Enabled)
JPME2	Intel Recovery Mode	Pins 1-2 (Normal)
JWD1	Watch Dog Enable	Pins 2-3 (NMI)
JBR1	Restores the BIOS firmware from a USB memory device (SUPER.ROM)	Pins 1-2 (Normal), set switch to pins 2-3 to recover BIOS
JPUSB1	USB Wake Up Enable (USB14/15)	Pins 1-2 (Enabled)
JPB1	BMC Enable/Disable (C7X99-OCE-F only)	Pins 1-2 (Enabled)
JPG1	Onboard VGA Enable (C7X99-OCE-F only)	Pins 1-2 (Enabled)

Connectors and Switches

Connector	Description
I/O Back Panel	See Back Panel I/O Connectors, below right
Audio FP	Front Panel Audio Header
BT1	Onboard Battery
Fan 1,2,3,4,5	System/CPU Fan Headers (Fan1: CPU Fan)
JD1	Speaker/buzzer (Pins 1~4: External Speaker, Pins 3~4: Buzzer)
JF1	Front Panel Control Header
JL1	Chassis Intrusion Header
JPW1	24-pin ATX Main Power Connector (Required)
JPW2	+12V 4-pin CPU power Connector (Required)
JSD1	SATA DOM (Disk On Module) Power Connector
JSTBY1	Standby Power Header
SP1	Internal Speaker/Buzzer
I-SATA0~5	(Intel X99) SATA 3.0 Ports 0~5 (6Gb/sec), Supports RAID 0, 1 ,5 & 10
s-SATA0~3	(Intel X99) SATA 3.0 Ports 0~3 (6Gb/sec), no RAID functions
USB 16/17	Front Panel Accessible USB 3.0 Headers 16/17
OC FRONT PANEL	Header for the Over-Clocking Control Panel
S4	Power Button
S11	BIOS Restore
S5, S6, S7	Over-Clocking Buttons OC1(15%), OC2(20-25%), OC3 (User-Defined in BIOS)
S9	Home Button, Default setting (non-OC)
S10	Memory Overclocking Button
S8	Clear CMOS Button (on board)
JPI2C1	Power Supply SMBus I2C Header.
JTPM1	Trusted Platform Module Header
COM1	Serial Port Header for COM1
JIPMB1	System Management Bus header (for IPMI only)

LED Indicators

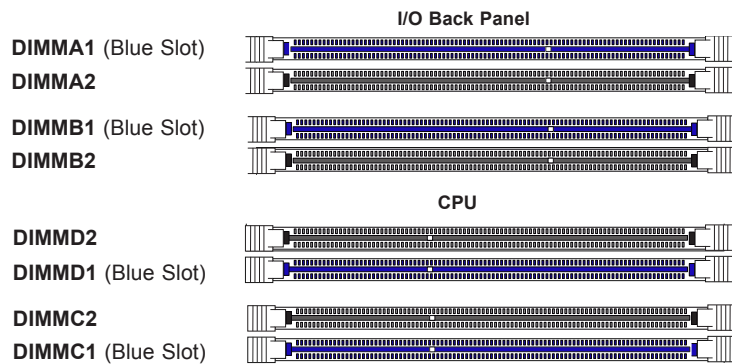
LED	Description	Color/State	Status
LEDM1	BMC Heartbeat*	Green: Blinking	BMC Normal
LE2	Power LED	Green: Steady	System On/Running
LED4	Status Display (C7X99-OCE only)	Digital Readout	Download the status codes below**

Memory Support

The C7X99-OCE(-F) supports up to 64GB of Unbuffered (UDIMM) DDR4 non-ECC 2133~3000(OC) MHz in 8 memory slots. Populating these DIMM modules with a pair of memory modules of the same type and same size will result in interleaved memory, which will improve memory performance.

 **Note:** For memory optimization, use only DIMM modules that have been validated by Supermicro. For the latest memory updates, please refer to our website at <http://www.supermicro.com/products/motherboard>.

DIMM Memory Installation



Memory Population Guidelines

When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1, DIMMB1, DIMMC1, DIMMD1 then DIMMA2, DIMMB2, DIMMC2, DIMMD2.

- Always use DDR4 DIMM modules of the same size, type and speed.

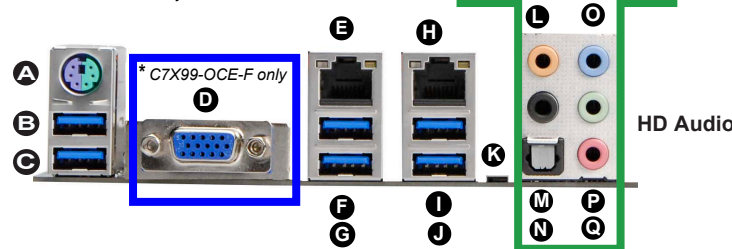
[illegible]

 Note: Up to 64GB of memory are supported. See chapter 2 of the User Manual for complete memory population information.

Back Panel I/O Connectors

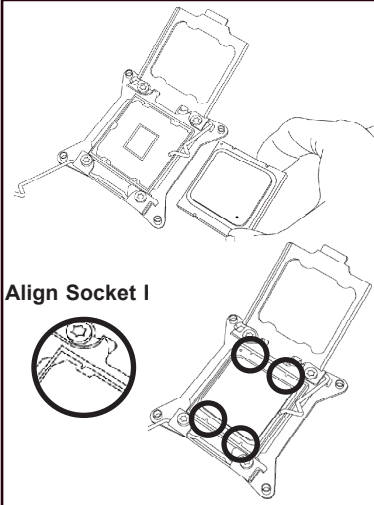
A. PS/2 Keyboard/Mouse Port	H. Gb LAN Port 2	L. Center/LFE Out
B. USB 3.0 Port 14	I. USB 3.0 Port 12	M. Surround Out
C. USB 3.0 Port 15	J. USB 3.0 Port 13	N. S/PDIF Out
D. VGA Port*	K. Clear CMOS	O. Line In
E. Gb LAN Port 1 (shared IPMI*)		P. Line Out
F. USB 3.0 Port 10		Q. Mic In
G. USB 3.0 Port 11		

* C7X99-OCE-F only

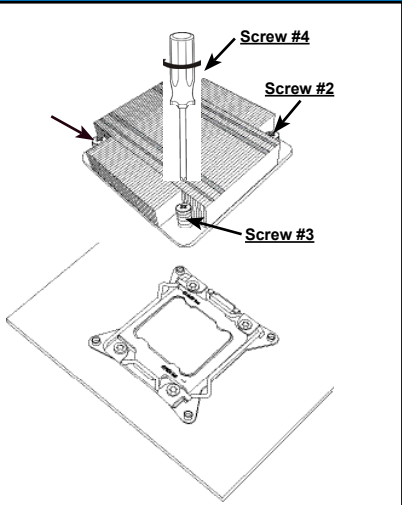


 Note: Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU/motherboard installation instructions.

CPU Installation



Heatsink Installation



Front Panel Control (JF1)

	20	19	
Ground			NMI
X			X
Power LED			Vcc
HDD LED			Vcc
NIC1 LED			Vcc
NIC2 LED			Vcc
OH/Fan Fail LED			Vcc
Power Fail LED			Vcc
Ground			#3-4 Reset Button
Ground			#1-2 Power Button
	2	1	

 Note: Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as drawings shown in this guide.

* For the C7X99-OCE-F, reboot time may be longer after clearing CMOS. This is due to the additional IPMI functions.

** Download the AMI status codes at http://www.ami.com/support/doc/ami_aptio_4.x_status_codes_pub.pdf

 Note: Refer to Chapter 2 of the User Manual for detailed information on jumpers, connectors, and LED indicators.