C7X99-OCE-F

Products ▸ Motherboards ▸ Core™ Boards ▸ [C7X99-OCE-F]

Key Features

1. Single socket R3 (LGA 2011) supports Intel® 4th gen. Core i7 series, Xeon® processor E5-2600 v3, E5-1600 v3
2. Intel® X99 chipset
3. Up to 64GB non-ECC UDIMM DDR4, frequency up to 3300MHz (OC); 8x DIMM slots
4. 4 PCI-E 3.0 x16 (run at 16/16/NA/8 or 16/8/8/8), 2 PCI-E 2.0 x1 (in x4)
5. Intel® i210-AT Dual port GbE LAN Shared with IPMI
6. 10x SATA3 (6Gbps)
7. 1x VGA (Aspeed AST 2400 BMC for IPMI), 1x COM, 1x TPM
8. 8x USB 3.0 ports (6 rear + 2 via header)
9. HD Audio 7.1 channel connector by Realtek ALC1150

Links & Resources

▸ Tested Memory List
▸ Motherboard Manual
▸ Quick Reference Guide
▸ Update Your BIOS
▸ IPMI Firmware
▸ Download the Latest Drivers and Utilities
▸ Download Driver CD
▸ Heat Sink Compatibility
▸ OS Compatibility

Specifications

Product SKUs	
MBD-C7X99-OCE-F -B	▪ C7X99-OCE-F (Bulk Pack)

Physical Stats	
Form Factor	▪ ATX
Dimensions	▪ 12" x 9.6", (30.5cm x 24.4cm)

Processor	
CPU	▪ **Intel® 4th gen. Core™ i7 series, Intel® Xeon® processor E5-2600/ 1600 v3 family (up to 160W TDP **)** ▪ Single Socket R3 (LGA 2011)
Note	** Motherboard supports this maximum TDP. Please verify your system can thermally support

System Memory	
Memory Capacity	▪ 8x 288-pin DDR4 DIMM slots ▪ Supports up to 64GB DDR4 Non-ECC Un-Buffered memory (UDIMM) in 8 DIMM slots
Memory Type	▪ Frequency up to 3300MHz(OC) non-ECC DDR4 SDRAM 72-bit, 284-pin (UDIMM) gold-plated DIMMs ▪ Support overclocking up to 3300MHz* * Please check the operation manual for supported components
DIMM Sizes	▪ 8GB, 4GB, 2GB, 1GB
Memory Voltage	▪ 1.2V

On-Board Devices	
Chipset	▪ Intel X99 chipset
SATA	▪ SATA3 (6Gbps) via Intel X99 controller ▪ 10x SATA3 ports: 6x iSATA (RAID 0, 1, 5, 10) and 4x sSATA
Network Controllers	▪ Intel® i210-AT Dual Port Gigabit Ethernet ▪ Share with IPMI ▪ Supports 10BASE-T, 100BASE-TX,

Chassis (Optimized for C7X99-OCE-F)	
Important Chassis Notes	▪ To support motherboards based on Intel® Xeon® processor 5500/3500 series, **Revision K** or later chassis is recommended for most models. Please talk to your sales representative for details.

Expansion Slots	
PCI-Express	▪ 4x PCI-E 3.0 x16 slots (run at 16/16/NA/8 or 16/8/8/8) ▪ 2x PCI-E 2.0 x1 (in x4) slots PCI-E slot #1 supports (x4) and slot #4 (x16) is disabled when Intel Core i7-5820K is installed

System BIOS	
BIOS Type	▪ 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	▪ Plug and Play (PnP) ▪ APM 1.2 ▪ DMI 2.3 ▪ PCI 2.3 ▪ ACPI 1.0 / 2.0 / 3.0 / 4.0 ▪ USB Keyboard support ▪ Hardware BIOS Virus protection ▪ SMBIOS 2.7.1 ▪ UEFI 2.3.1 ▪ RTC (Real Time Clock) Wakeup

Management	
Software	▪ IPMI 2.0 ▪ SuperDoctor® III ▪ Watch Dog
Power Configurations	▪ ACPI Power Management ▪ Keyboard Wakeup from Soft-Off ▪ CPU Fan auto-off in sleep mode ▪ Power-on mode for AC power recovery

PC Health Monitoring	
	▪ +12V, +3.3V, +5V, 1.05 (PCH), 1.2V

	and 1000BASE-T, RJ45 output	**Voltage**	(VDIMM), 3.3V standby, Chassis intrusion header, Monitors CPU voltages, VBAT
Audio	▪ RealTek ALC1150 High Definition Audio		
Graphics	▪ ASPEED AST2400 BMC (for IPMI only)	**FAN**	▪ Total of 5 fan headers supporting up to 5 fans ▪ 5 fans with tachometer status monitoring ▪ Status monitor for speed control ▪ Status monitor for on/off control ▪ Low noise fan speed control ▪ Pulse Width Modulated (PWM) fan connectors

Input / Output

SATA	▪ 10x SATA3 (6Gbps) ports		
LAN	▪ 2x RJ45 Gigabit Ethernet LAN ports ▪ Shared with IPMI	**Temperature**	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ I^{2}C temperature sensing logic ▪ Thermal Monitor 2 (TM2) support ▪ PECI
USB	▪ 8x USB 3.0 ports (6 rear + 2 via header) ▪ 4 of 8 USB 3.0 ports upgradable to 4x USB 3.1 (10Gbps) (2 rear + 2 via header) (This upgrade is BOM option for OEM only)		
Audio	▪ 7.1 HD Jacks	**LED**	▪ CPU / System Overheat LED ▪ Suspend static indicator LED
Video	▪ 1x VGA (Aspeed AST 2400 BMC for IPMI)	**Other Features**	▪ Chassis intrusion detection ▪ Chassis intrusion header ▪ RoHS
Keyboard/Mouse	▪ 1x PS/2 Keyboard/Mouse port		
Serial Port / Header	▪ 1x header		
TPM	▪ 1x TPM 1.2 20-pin Header		

OS Compatibility

• Please reference the **OS Compatibility Chart** for details

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (Bulk Package)			
	Part Number	**Qty**	**Description**
Motherboard	MBD-C7X99-OCE-F	1	C7X99-OCE-F Motherboard
Quick Reference Guide	QRG-1646	1	C7X99-OCE-F Motherboard