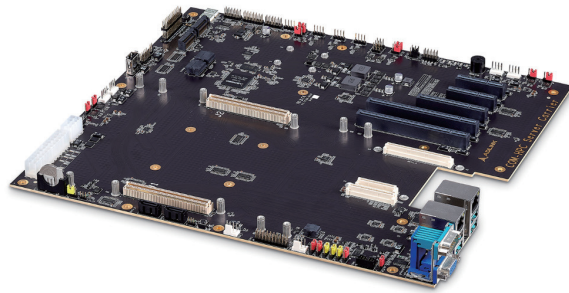


# COM-HPC Server Base

*COM-HPC® Server Type Reference Carrier Board in Extended-ATX Form Factor*



## Specifications

	COM-HPC Server Base
Core Module Interface	PICMG COM-HPC Revision 1.0 Support Server Type module in Size E or Size D form factor
Dimension	305 mm x 330 mm (Extended-ATX)
Expansion Busses	2 PCI Express x4 slot (PCIe lane 0-3, 4-7) 2 PCI Express x4 M.2 connector (PCIe lane 8-11, 12-15) 2 PCI Express x16 slot (PCIe lane 16-31, 32-47) 1 PCI Express x8 or x16 slot (PCIe lane 48-55) (TBC)
POST LEDs	Onboard IO expander for BIOS POST code data, on I <sup>2</sup> C bus
Secondary BIOS	Onboard socket for secondary SPI flash
Connectors	Two x 400-pin (10mm height)
OCP Mezzanine like Ethernet	Three connector (A,B,C) on carrier on Rear side Connector C: 4x KR input (ETH 0-3) and support ADLINK OCP Mezzanine like Ethernet card Connector B: 4x KR input (ETH 4-7) and support ADLINK OCP Mezzanine like Ethernet card Connector A: x8 PCIe lanes input (PCIe lane 56-63) & NC-SI (from Carrier BMC) and support OCP Mezzanine 2.0 Ethernet card
General Purpose LAN	2500/1000/100/10BASE-T compatible RJ-45 on Rear I/O 2500BASE-T depends on COM-HPC module
Remote Management LAN	1000/100/10BASE-T compatible RJ-45 on Rear I/O source from the Carrier BMC
Carrier BMC	Carrier BMC is in a module style (Remote BMC Module) and plug-in to carrier through an around 160pins connector for the out-of-band management
SATA	2x SATA (with power for SATA DOM devices)
USB	4x USB 3.2/2.0/1.0 (USB 0-3) Type A connector on Rear I/O 2x USB 2.0 header (USB 5-6) for front panel usage 1x USB 2.0 Vertical connector (USB 7)
Serial Port	1x DB-9 (UART 0) on Rear I/O, 1x onboard 10-pin header (UART 1)
VGA Port	1x VGA on Rear I/O for development purpose source from the Carrier BMC
FAN	1x 4-pin FAN connector (source from COM-HPC module) 5x 4-pin FAN connector (source from the Carrier BMC)
KB/Mouse	2x 6-pin mini DIN
Feature Connectors	Header for SMBus, 2x I2C, eSPI, GP_SPI, 12x GPIO, IPMB (source from the Carrier BMC) Header for front panel usage Others for module control signals
Miscellaneous	ON/OFF, Reset, Power LED, HDD LED, Buzzer (TBC)

# COM-HPC Server Base

## Functional Diagram

