



## Product Brief

- ASRock DuraCaps
- Single socket H2 (LGA 1155) supports Intel® Xeon E3-1200 & E3-1200 v2 series, 2<sup>nd</sup> and 3<sup>rd</sup> Gen Core i3, Pentium, Celeron processors
- Supports Dual Channel DDR3 1600 memory, 4 DIMM slots, Max. 32GB
- 2 PCIe 3.0 x16 slots (PCIe6/PCIe4: x16/x0 mode or x8/x8 mode)
- 1 PCIe 2.0 x4, 2 PCIe 2.0 x1, 1 PCI
- ASPEED AST2300 graphics
- 1 VGA : D-Sub
- 7 USB 2.0 (2 from rear I/O, 4 from onboard headers, 1 Type A port)
- 2 SATA3 6.0 Gb/s and 4 SATA2 3.0 Gb/s connectors by Intel® C204, support RAID (RAID 0, RAID 1, RAID 10 and Intel Rapid Storage)
- 2 SATA3 6.0 Gb/s connectors by Marvell SE9172, support RAID (RAID 0 and RAID 1)
- 4 Intel® 82574L LAN, Support PCIE Quad Gigabit LAN (with Teaming function)

## Specifications

Physical status	Form Factor	- ATX
	Dimensions	- 12" x 9.6" (30.5 cm x 24.4 cm)
Processor System	CPU	- Supports Intel® Xeon® E3-1200 & v2 Series and 2 <sup>nd</sup> / 3 <sup>rd</sup> Generation Core™ i3, Pentium, Celeron Processors - Supports Hyper-Threading Technology
	Socket	- Single Socket H2 (LGA1155)
	Power phase	- 4 Power Phase Design
	Chipset	- Intel® C204
System Memory	Capacity	- 4 x 240-pin DDR3 DIMM slots - Support up to 32GB DDR3 ECC UDIMM
	Type	- Dual Channel DDR3 memory technology - Supports DDR3 1600*/1333/1066* ECC DIMM * DDR3 1600 can only be supported with Intel® Xeon® E3-1200 v2 Processor * DDR3 1066 can only be supported with Intel 2 <sup>nd</sup> Generation Core™ i3 Processors*
	Voltage	- 1.5V, 1.35V
Expansion Slot	PCIe 3.0 x 16	- 2 slots (PCIe6/PCIe4: x16/x0 mode or x8/x8 mode) * PCIe4 slot shares lanes with PCIe6 slot. When PCIe4 slot is populated, PCIe6 slot will operate at up to x8 mode. * PCIe 3.0 can only be supported with Intel® Xeon® E3-1200 v2 Processor
	PCIe 2.0 x 4	- 1 slot (PCIe2: x4 mode)
	PCIe 2.0 x 1	- 2 slots
	PCI	- 1 slot
Storage	SATA controller	- Intel C204 : 2 x SATA3 6.0 Gb/s, 4 x SATA2 3.0 Gb/s, Support RAID 0, 1, 10 and Intel Rapid Storage
	Additional SATA Controller	- Marvell SE9172: 2 x SATA3 6.0 Gb/s, support RAID 0, 1, NCQ, AHCI and "Hot Plug" functions (* Marvell SE9172 RAID is supported with Windows® OS only )
Ethernet	Interface	- Gigabit LAN 10/100/1000 Mb/s
	LAN Controller	- 4 x Intel® 82574L Supports Wake-On-LAN Supports Energy Efficient Ethernet 802.3az Supports Quad LAN with Teaming function Supports PXE
Graphics	Controller	- ASPEED AST1300
	VRAM	- DDR3 16MB
	Output	- Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz
Rear Panel I/O	PS/2 KB/mouse	- 2
	VGA port	- D-sub x 1
	USB 2.0 port	- 2
	Lan port	- 4 x RJ45 Gigabit Ethernet LAN ports - LAN Ports with LED (ACT/LINK LED and SPEED LED)
	Serial port	- 1 (COM1)
Internal connector	COM port header	- 1 (COM2)
	Auxiliary panel header	- 1(include chassis intrusion, location button & LED, front LAN LED)
	TPM header	- 1
	IPMB header	- 0
	Buzzer	- 1
	Fan header	- 6 (5 x 4-pin, 1 x 3-pin)
	ATX power	- 1 (24-pin)+1 (8-pin)
	USB header	- 2 (each support 2 USB 2.0)
	Type A USB 2.0 port	- 1
System BIOS	BIOS type	- 64Mb AMI UEFI Legal BIOS with GUI support
	BIOS features	- Plug and Play (PnP) - ACPI 1.1 Compliance Wake Up Events - SMBIOS 2.3.1 Support - DRAM Voltage Multi-adjustment - ASRock Instant Flash
Hardware Monitor	Temperature	CPU Temperature Sensing System Temperature Sensing
	Fan	CPU/Rear/Front Fan Tachometer CPU Quiet Fan (Allow CPU Fan Speed Auto-Adjust by CPU Temperature) CPU/Rear/Front Fan Multi-Speed Control
	Voltage	- Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore, DRAM, VTT, 1.05V_PCH, +BAT, 3VSB, 5VSB
Support OS	OS	- Microsoft® Windows® Server 2008 / 2008 R2 / Linux compliant
Environment	Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
	Humidity	Non operation humidity: 20% ~ 90% ( Non condensing)

## Board Diagram

