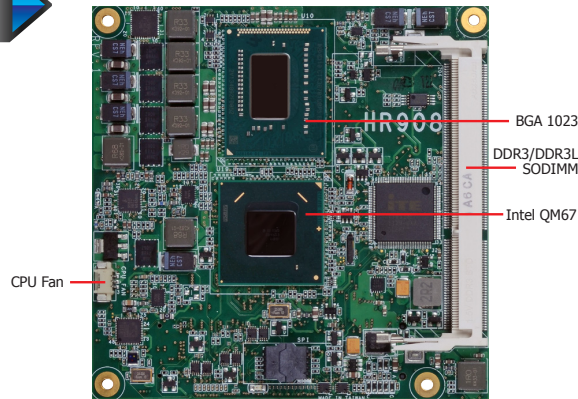




3rd/2nd Gen Intel® Core™ COM Express® Compact

HR908-B

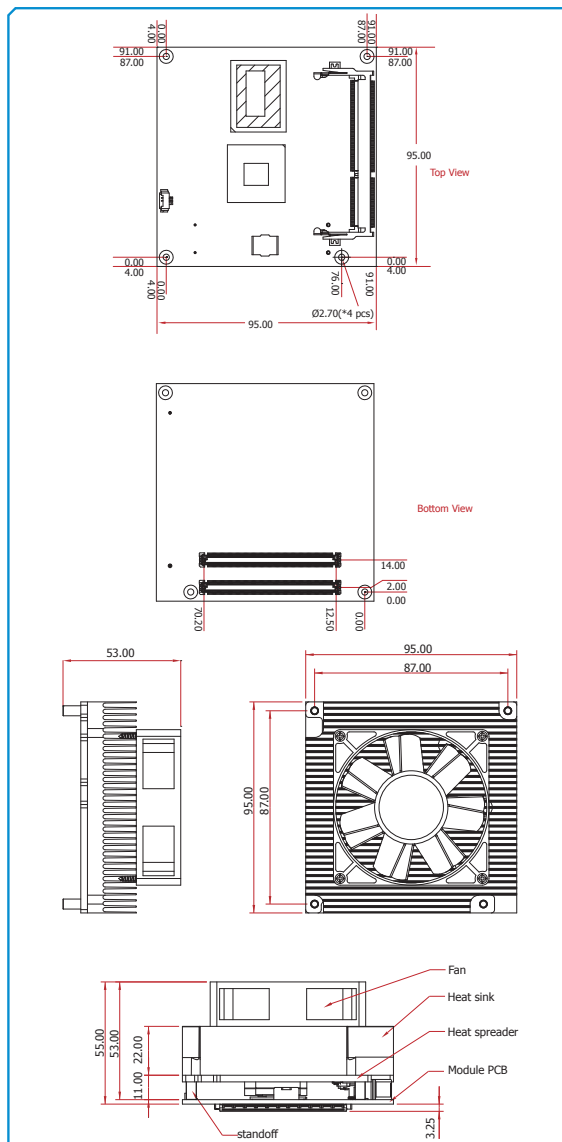
QM67



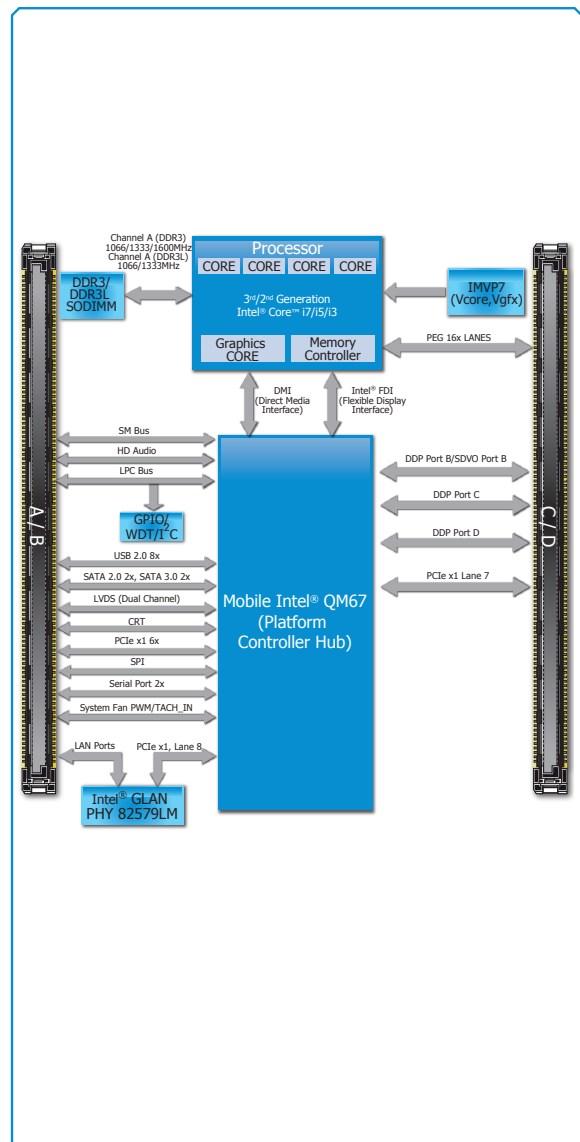
► Features

MEMORY	1 DDR3/DDR3L SODIMM up to 8GB
EXPANSION	1 PCIe x16, 1 PCIe x4, 3 PCIe x1 1 LPC, 1 SMBus, 1 I ² C, 2 serial 1 VGA, 1 LVDS, 3 DDI (HDMI/DVI/DP/SDVO) 8 USB 2.0 4 SATA: 2 SATA 3.0, 2 SATA 2.0 4-bit input and 4-bit output GPIO
LAN	1 LAN
DIMENSIONS	COM Express® R2.1 Compact, Type 6 95mm x 95mm (3.74" x 3.74")

▶ Mechanical Drawing



► Block Diagram





3rd/2nd Gen Intel[®] Core[™] COM Express[®] Compact

HR908-B

► Specifications

PROCESSOR

- BGA 1023 packaging technology
 - 3rd generation Intel[®] Core[™] processors (22nm process technology)
 - 2nd generation Intel[®] Core[™] processors (32nm process technology)
- Please refer to the Ordering Information below*

CHIPSET

- Intel[®] QM67 Express chipset

SYSTEM MEMORY

- One 204-pin SODIMM socket
- Supports DDR3 SODIMM

3rd Generation Processors	2nd Generation Processors
DDR3 1066/1333/1600MHz	DDR3 1066/1333MHz (i5/i3/Celeron)
	DDR3 1600MHz (i7)

- Supports DDR3L SODIMM
- 1066/1333MHz when operating at 1.35V
- 1066/1333/1600MHz when operating at 1.5V
- Supports up to 8GB system memory
- DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

ONBOARD GRAPHICS FEATURES

- Intel[®] HD Graphics 4000 (3rd generation processors)
- Intel[®] HD Graphics 3000 (2nd generation processors)
- Intel[®] HD Graphics (Intel[®] Celeron[™] processors)
- Supports VGA, LVDS and DDI interfaces
- VGA: resolution up to 1920x1200 @ 60Hz
- LVDS: Single Channel - 18/24-bit; Dual Channel - 36/48-bit, resolution up to 1920x1200 @ 60Hz
- Digital Display Interfaces: HDMI, DVI, DP and SDVO
- HDMI, DVI, DP: resolution up to 1920x1200 @ 60Hz
- Intel[®] Clear Video Technology
- DirectX Video Acceleration (DXVA) for accelerating video processing
- Full AVC/VC1/MPEG2 HW Decode
- Supports DirectX 11/10.1/10/9 and OpenGL 3.0 (3rd generation processors)
- Supports DirectX 10.1/10/9 and OpenGL 3.0 (2nd generation processors)

ONBOARD AUDIO FEATURES

- Supports High Definition Audio interface

ONBOARD LAN FEATURES

- Intel[®] 82579LM Gigabit Ethernet PHY
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

SERIAL ATA (SATA) INTERFACE

- Supports 4 Serial ATA interfaces
- 2 SATA 3.0 with data transfer rate up to 6Gb/s
- 2 SATA 2.0 with data transfer rate up to 3Gb/s
- Integrated Advanced Host Controller Interface (AHCI) controller
- Supports RAID 0/1/5/10

► Ordering Information

	Model Name	Part Number	Description
3rd Gen Processors	HR908-B3120ME	777-HR9081-400G	Intel [®] Core [™] i3-3120ME, 3M Cache, 2.40 GHz, 35W
	HR908-B810E	777-HR9081-E00G	Intel [®] Celeron [™] B810E, 2M Cache, 1.6GHz, 35W
2nd Gen Processors	HR908-B847E	777-HR9081-F00G	Intel [®] Celeron [™] 847E, 2M Cache, 1.1GHz, 17W
	HR908-B827E	777-HR9081-700G	Intel [®] Celeron [™] 827E, 1.5M Cache, 1.4GHz, 17W

The following processors will be available upon request. Please contact your sales representative for more information.

	Model Name	Part Number	Description
3rd Gen Processors	HR908-B3615QE	777-HR9081-600G	Intel [®] Core [™] i7-3615QE, 6M Cache, up to 3.30 GHz, 45W
	HR908-B3612QE	777-HR9081-000G	Intel [®] Core [™] i7-3612QE, 6M Cache, up to 3.10 GHz, 35W
	HR908-B3555LE	777-HR9081-100G	Intel [®] Core [™] i7-3555LE, 4M Cache, up to 3.20 GHz, 25W
	HR908-B3517UE	777-HR9081-200G	Intel [®] Core [™] i7-3517UE, 4M Cache, up to 2.80 GHz, 17W
	HR908-B3610ME	777-HR9081-300G	Intel [®] Core [™] i5-3610ME, 3M Cache, up to 3.30 GHz, 35W
	HR908-B3217UE	777-HR9081-500G	Intel [®] Core [™] i3-3217UE, 3M Cache, 1.60 GHz, 17W
	HR908-B1020E	777-HR9081-H00G	Intel [®] Celeron [™] 1020E, 2M Cache, 2.20 GHz, 35W
	HR908-B1047UE	777-HR9081-I00G	Intel [®] Celeron [™] 1047UE, 2M Cache, 1.40 GHz, 17W
2nd Gen Processors	HR908-B927UE	777-HR9081-J00G	Intel [®] Celeron [™] 927UE, 1M Cache, 1.50 GHz, 17W
	HR908-B2715QE	777-HR9081-800G	Intel [®] Core [™] i7-2715QE, 6M Cache, up to 3.00 GHz, 45W
	HR908-B2655LE	777-HR9081-900G	Intel [®] Core [™] i7-2655LE, 4M Cache, up to 2.90 GHz, 25W
	HR908-B2610UE	777-HR9081-A00G	Intel [®] Core [™] i7-2610UE, 4M Cache, up to 2.40 GHz, 17W
	HR908-B2515E	777-HR9081-B00G	Intel [®] Core [™] i5-2515E, 3M Cache, up to 3.10 GHz, 35W
	HR908-B2310E	777-HR9081-C00G	Intel [®] Core [™] i3-2310E, 3M Cache, 2.10 GHz, 35W
	HR908-B2340UE	777-HR9081-D00G	Intel [®] Core [™] i3-2340UE, 3M Cache, 1.30 GHz, 17W
	HR908-B807UE	777-HR9081-G00G	Intel [®] Celeron [™] 807UE, 1M Cache, 1.00 GHz, 10W

► Packing List

- 1 HR908 board
- 1 DVD

► Optional Items

- COM331-B carrier board kit
- COM101-BAT carrier board kit
- Heat spreader: A71-011011-000G
- Heat spreader with heat sink and fan: 761-CR9680-000G
- Heat sink with fan: A71-111008-000G

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DFI reserves the right to change the specifications at any time prior to the product's release. Changes thereafter will be based on the product's revision. Please contact your sales representative for the exact revision offered in your area. Refer to the website (www.dfi.com) for the most updated information. All product names mentioned are trademarks of their respective companies. COM Express[®] is a registered trademark of the PCI Industrial Computer Manufacturers Group © July 7, 2016 DFI Inc.

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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