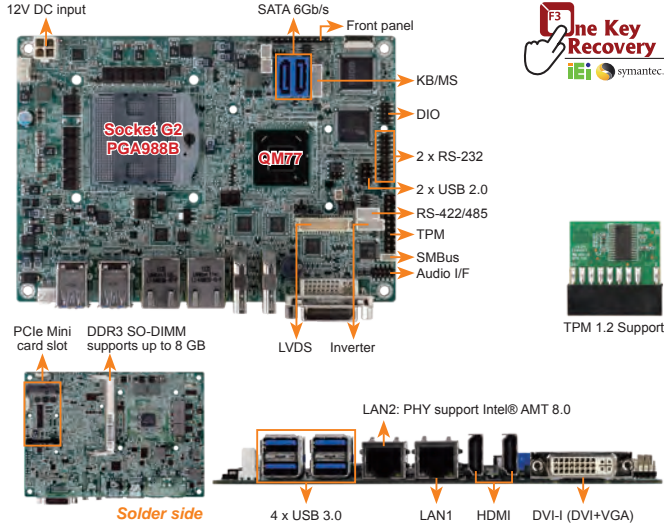


# NANO-QM770

EPIC SBC Supports Socket G2 for Intel® 22nm Mobile CPU, DVI-I/dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s and Audio



TPM 1.2 Support

## Features

- EPIC SBC with Socket G2 for Intel® 22nm mobile processor
- Triple independent display supports with dual HDMI+DVI/dual HDMI+LVDS (HDMI V1.3a compliant)
- 1066/1333/1600 MHz DDR3 SDRAM supports up to 8 GB
- Supports three COM, four USB 3.0, two SATA 6Gb/s and audio
- Intel® GbE LAN with Intel® AMT 8.0 supported
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU
  - Socket G2 for 3rd generation Intel® mobile processor
- ◆ Chipset: Intel® QM77
- ◆ BIOS: UEFI BIOS
- ◆ Memory
  - One 204-pin 1600/1333 MHz single-channel DDR3 & DDR3L SDRAM unbuffered SO-DIMM slot supports up to 8 GB
- ◆ Graphics
  - Intel® HD Graphics Gen 7 with 12 execution units DirectX 11, OpenGL 3.1, OpenCL 1.1
- ◆ Display Output
  - 1 x DVI-I (up to 2048x1536@75Hz)
  - 1 x 18/24-bit dual-channel LVDS (up to 1920x1200@60Hz)
  - 2 x HDMI (up to 1920x1200@60Hz)
- ◆ Ethernet
  - LAN1: Intel® 82583V PCIe controller
  - LAN2: Intel® 82579 PHY with Intel® AMT 8.0 support
- ◆ External I/O Interface: 4 x USB 3.0
- ◆ Internal I/O Interface
  - 1 x KB/MS (1x6 pin)
  - 2 x USB 2.0 (2x4 pin, P=2.54)
  - 1 x RS-422/485 (1x4 pin, P=2.0)
  - 2 x RS-232 (2x5 pin, P=2.0)
  - 2 x SATA 6Gb/s with 5V SATA power connector (RAID 0, 1 supported)
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ Audio
  - Realtek ALC662 HD codec
  - 1 x Front audio (2x5 pin)
- ◆ Front Panel
  - 1 x Front panel (1x10 pin)
- ◆ Expansion
  - 1 x Full-size PCIe Mini card slot (supports mSATA)
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ Programmable I/O: 8-bit digital I/O
- ◆ Fan Connector
  - 1 x CPU smart fan (1x4 pin)
  - 1 x System smart fan (1x3 pin)
- ◆ Power Supply
  - 12V only DC input
  - 1 x Internal power connector (2x2 pin) Support AT/ATX mode
- ◆ Power Consumption
  - 12V@4.89A (Intel® 1.8GHz CPU with one 1333 MHz 4 GB DDR3 SO-DIMM)
  - ◆ Operating Temperature: -10°C ~ 60°C
  - ◆ Storage Temperature: -20°C ~ 70°C
  - ◆ Operating Humidity: 5% ~ 95%, non-condensing
  - ◆ Dimensions: 115 mm x 165 mm
  - ◆ Weight: GW: 850g / NW: 350g
  - ◆ CE/FCC compliant

## Packing List

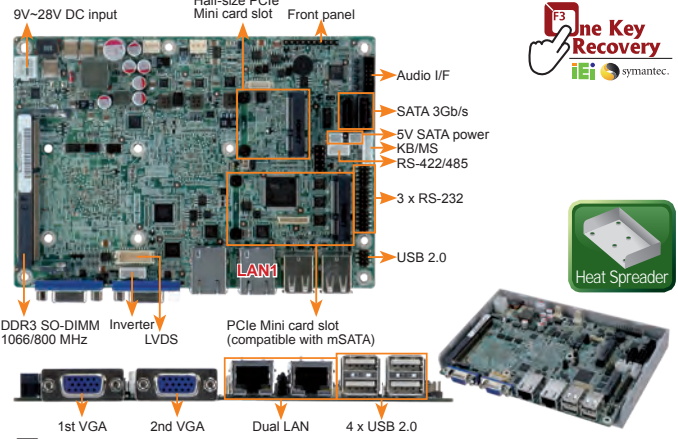
1 x NANO-QM770 single board computer	
1 x Audio cable	1 x Mini jumper pack
1 x Power cable	1 x One Key Recovery CD
2 x RS-232 cable	1 x QIG
2 x SATA with power cable kit	1 x Utility CD

## Ordering Information

Part No.	Description
NANO-QM770-R10	EPIC SBC supports Socket G2 for Intel® 22nm mobile CPU, DVI-I/dual HDMI/LVDS, dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s and Audio
32000-023800-RS	PS/2 KB/MS cable, 135mm/110mm, P=2.0
32000-044300-RS	Dual port USB cable, 210mm, P=2.54
32205-003800-300-RS	RS-422/485 cable, 200mm, P=2.0
CF-989A-RS-R12	CPU cooler for mobile socket-G (PGA988) up to 55W processor, copper, 60 x 60 x 27.6mm, RoHS
TPM-IN01-R20	20-pin Infineon TPM module, software management tool, firmware v3.17

# NANO-CV-D25502/N26002

EPIC SBC with Intel® Atom™ D2550 1.86GHz/ N2600 1.6GHz, DDR3, Dual VGA/LVDS, Dual GbE, USB 2.0, Dual PCIe Mini, SATA 3Gb/s, mSATA and Audio



## Features

- EPIC form factor with Intel® Atom™ dual core D2550 1.86GHz/N2600 1.6GHz processor supporting DDR3 memory
- Dual display support by dual VGA and 18/24-bit single-channel LVDS
- 1066/800MHz DDR3 SO-DIMM supports up to 4 GB
- Easy assembly heat spreader for thermal management
- Wide power voltage range supports 9V ~ 28V power input
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU
  - Intel® Atom™ D2550 (1.86GHz, dual-core, 1MB cache)
  - Intel® Atom™ N2600 (1.6GHz, dual-core, 1MB cache)
  - Intel® Atom™ N2800 (1.86GHz, dual-core, 1MB cache)
- ◆ Chipset: Intel® NM10
- ◆ BIOS: UEFI BIOS
- ◆ Memory
  - One 204-pin 1066/800 MHz DDR3 SDRAM SO-DIMM slot supports up to 4 GB (D2550/N2800) or 2 GB (N2600)
- ◆ Graphics Engine
  - GMA 3650 at 640 MHz graphics core speed (for N2550 and N2800)
  - GMA 3600 at 400 MHz graphics core speed (for N2600)
- ◆ Display Output
  - VGA1 integrated in the CPU (up to 1920x1200@60Hz)
  - VGA2 driver via the NXP PTN3392 (up to 1920x1200@60Hz)
  - 24-bit single-channel LVDS (D2550) (up to 1440x900@60Hz)
  - 18-bit single-channel LVDS (N2600/N2800) (up to 1366x768@60Hz)
- ◆ Ethernet
  - Dual PCIe LAN controller by Realtek RTL8111E with ASF 2.0 support
- ◆ Audio
  - Realtek ALC662 HD Audio codec
  - 1 x Front audio (2x5 pin)
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ External I/O Interface: 4 x USB 2.0
- ◆ Internal I/O Interface
  - 1 x KB/MS (1x6 pin)
  - 1 x RS-422/485 (1x4 pin, P=2.0)
  - 2 x SATA 3Gb/s with 5V SATA power connector
  - 3 x RS-232 (2x5 pin, P=2.0)
- ◆ Expansion
  - 1 x Full-size PCIe Mini card slot (supports mSATA, co-lay with SATA1)
  - 1 x Half-size PCIe Mini card slot
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ Fan Connector (smart fan support)
  - 1 x CPU smart fan (1x3 pin)
  - 1 x System smart fan (1x3 pin)
- ◆ Power Supply
  - 9~28V DC input
  - 1 x Internal power connector (2x2 pin) Support AT/ATX mode
- ◆ Power Consumption
  - 12V@1.59A (Intel® Atom™ D2550 dual-core CPU with 1333 MHz 4 GB DDR3 memory)
  - 12V@1.23A (Intel® Atom™ D2600 dual-core CPU with 1333 MHz 4 GB DDR3 memory)
- ◆ Operating Temperature
  - 20°C ~ 60°C with free air, -20°C ~ 70°C with force air for D2550 processor
  - 20°C ~ 70°C with free air, -20°C ~ 75°C with force air for N2600/N2800 processor
- ◆ Storage Temperature: -30°C ~ 80°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 115 mm x 165 mm
- ◆ Weight: GW: 850g / NW: 350g
- ◆ CE/FCC compliant

## Packing List

1 x NANO-CV-D25502/N26002 single board computer	
1 x Audio cable	
1 x Heat spreader	1 x Mini jumper pack
1 x Power cable	1 x One Key Recovery CD
1 x RS-232 cable	1 x QIG
1 x SATA with 5V output cable kit	1 x Utility CD

## Ordering Information

Part No.	Description
NANO-CV-D25502-R10	EPIC SBC with Intel® Atom™ D2550 1.86GHz, DDR3, dual VGA/LVDS, dual GbE, USB 2.0, dual PCIe Mini, SATA 3Gb/s, mSATA and Audio
NANO-CV-N26002-R10	EPIC SBC with Intel® Atom™ N2600 1.6GHz, DDR3, dual VGA/LVDS, dual GbE, USB 2.0, dual PCIe Mini, SATA 3Gb/s, mSATA and Audio
NANO-CV-N28002-R10**	EPIC SBC with Intel® Atom™ N2800 1.86GHz, DDR3, dual VGA/LVDS, dual GbE, USB 2.0, dual PCIe Mini, SATA 3Gb/s, mSATA and Audio (by project support, MOQ 100pcs / lot)
32000-023800-RS	PS/2 KB/MS cable, 135mm/110mm, P=2.0
32001-008600-200-RS	Dual-port USB cable, 210mm, P=2.0
32205-002700-200-RS	RS-232/422/485 cable, 200mm, P=2.0
32205-003800-300-RS	RS-422/485 cable, 200mm, P=2.0

\*\*By order production, MOQ: 100