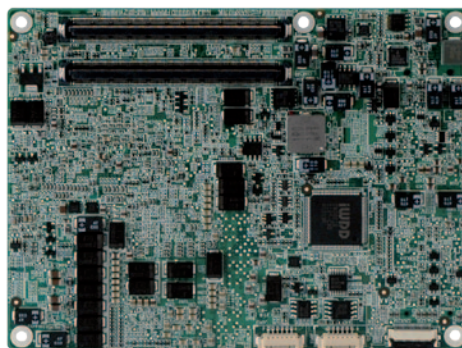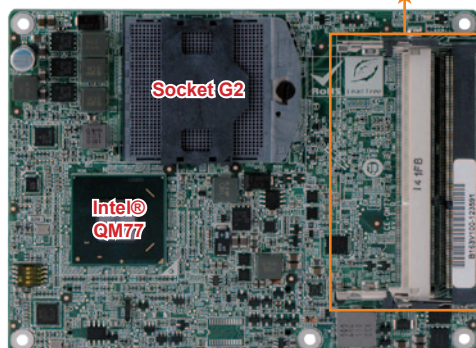**TYPE 6**
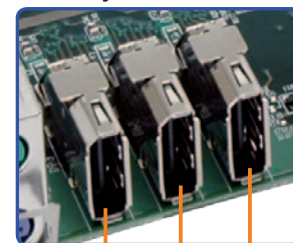
ICE-QM770

COM Express Basic Type 6 Module with Socket G2 Supports Intel®
2nd & 3rd Generation Core™ i7/i5/i3 Celeron® Processor, VGA/LVDS,
DDI, GbE, SATA 6Gb/s, USB 3.0, Audio and RoHS

Dual-channel DDR3 1333/1066 MHz

Socket G2

Intel® QM77

Three DDI (Digital Display Interface) by carrier board

Core i7/i5/i3

2nd & 3rd generation Intel® Core™ processors supported

One Key Recovery
iEi symantec.

DDR3 1600 | 1.35V DDR3L | Triple Display | SUPERSPEED USB 3.0 | SERIAL ATA 6Gb/s SATA 6Gb/s | Gigabit Ethernet GbE

Specifications

◆ **Form Factor**
PICMG COM Express R2.0 Basic Type 6

◆ **CPU**
Socket G2 for 2nd & 3rd generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor

◆ **PCH**
Intel® QM77

◆ **Memory**
Two 204-pin 1600/1333/1066 MHz dual-channel DDR3 SDRAM unbuffered DIMMs supported (system max. 16 GB)
Supports 1.35V DDR3L

◆ **BIOS**
UEFI BIOS

◆ **Graphics Engine**
Intel® HD Graphics 2000/3000
Supports DX11, OCL 1.1 and OpenGL 3.0
Full MPEG2, VC1, AVC Decode

◆ **Display Output**
VGA integrated in Intel® QM77 (signal to baseboard)
3 x DDI (up to 2560x1600@60Hz)
1 x VGA up to QXGA (up to 2048x1536@75Hz)
1 x 18/24-bit dual-channel LVDS up to UXGA (up to 1920x1200@60Hz)

◆ **Ethernet**
Intel® 82579LM

◆ **Embedded Controller**
iWDD

◆ **I/O Interface**
2 x RS-232 (to baseboard) (3.3V)   8 x USB 2.0 (to baseboard)
4 x USB 3.0 (to baseboard)   2 x SATA 3Gb/s (signal to baseboard)
2 x SATA 6Gb/s (signal to baseboard)

◆ **Audio**
High Definition Audio

◆ **SMBus**
Yes (to baseboard)

◆ **I²C**
Yes (to baseboard)

◆ **LPC**
Yes (to baseboard)

◆ **Expansions**
1 x PCIe x16 signal (to baseboard)
7 x PCIe x1 signal (to baseboard)

◆ **Watchdog Timer**
Software programmable supports 1~255 sec. system reset

◆ **GPIO**
8-bit GPIO (to baseboard)

◆ **TPM**
Through the baseboard

◆ **Intel® AMT**
Supports Intel® AMT 8.0

◆ **Power Consumption**
+12V@1.75A, Vcore _12V@3.33A (Intel® 1.8GHz CPU with 4 GB 1333 MHz DDR3 memory)

◆ **Operating Temperature**
-10°C ~ 60°C

◆ **Storage Temperature**
-20°C ~ 70°C

◆ **Operating Humidity**
5% ~ 95%, non-condensing

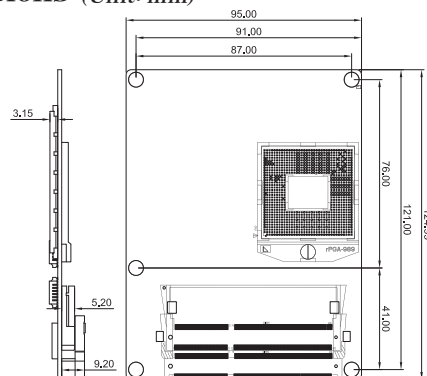◆ **Dimensions**
338 mm x 126 mm

◆ **Weight**
GW: 700g/NW: 250g

Features

- Intel® Core™ i7/i5/i3/Celeron® processors supported
- Intel® HD Graphics technology integrates high-performance graphics and media processing
- 1600/1333/1066 MHz dual-channel DDR3 memory supports up to 16 GB
- Supports 1.35V DDR3L
- 18/24-bit dual-channel LVDS, analog CRT and three DDI supported
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Dimensions (Unit: mm)

Packing List

1 x ICE-QM770-R10 single board computer	
1 x Heatspreader for Socket G2 CPU (22nm)	
1 x Cooler	1 x Utility CD
1 x Driver CD	1 x QIG (Quick Installation Guide)

Ordering Information

Part No.	Description
ICE-QM770-R10	COM Express Basic Type 6 Module with Socket G2 Supports Intel® 2nd & 3rd Generation Core™ i7/i5/i3 Celeron® Processor, VGA/LVDS, DDI, GbE, SATA 6Gb/s, USB 3.0, Audio and RoHS
ICE-DB-T6-R10	Baseboard for COM Express Type 6 modules