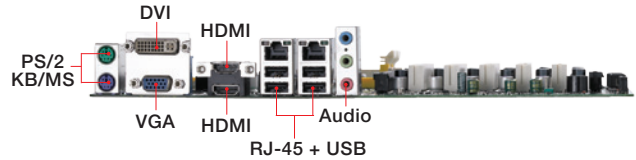
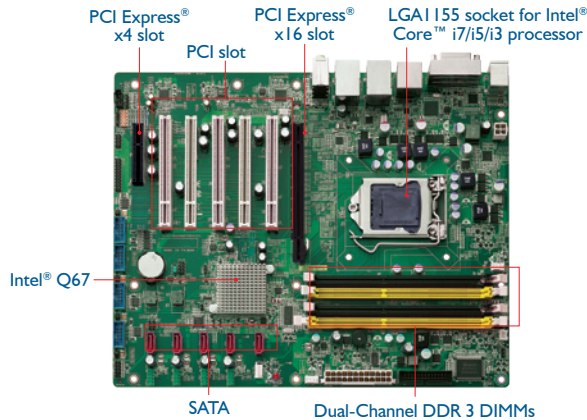


# M-342

## ATX Intel® Core™ i7/i5/i3/Pentium® Industrial Motherboard



### Features

- 3rd Gen Intel® Core™ i7/i5/i3/Pentium®
- 2x HDMI, DVI, VGA display output
- Integrated Graphics or PCI Express x16
- PCI Express x4, 5x PCI slots
- Intel® Matrix Storage Technology supports RAID 0/1/5/10

### Specifications

#### Processor & System

<b>CPU</b>	Intel® Core™ i7-3770, 3.40 GHz, 8M Cache, 22nm, 77W TDP, LGA1155 (4C) Intel® Core™ i5-3550S, 3.0 GHz, 6M Cache, 22nm, 65W TDP, LGA1155 (4C) Intel® Core™ i3-3220, 3.30 GHz, 3M Cache, 22nm, 55W TDP, LGA1155 (2C) Intel® Pentium® G2120, 3.10 GHz, 3M Cache, 22nm, 55W TDP, LGA1155 (2C) Intel® Core™ i7-2600, 3.4 GHz, 8M Cache, 32nm, 95W TDP, LGA1155 (4C) Intel® Core™ i5-2400, 3.1 GHz, 6M Cache, 32nm, 95W TDP, LGA1155 (4C) Intel® Core™ i3-2120, 3.3 GHz, 3M Cache, 32nm, 65W TDP, LGA1155 (2C) Intel® Pentium® G850, 2.9 GHz, 3 MB Cache, 32nm, 65W TDP, LGA1155 (2C)
<b>Chipset</b>	Intel® Q67 Express Chipset
<b>Memory</b>	4x 240-pin DIMM sockets Dual-Channel DDR3 1066/1333/1600 (based on CPU), up to 32 GB
<b>BIOS</b>	AMI 32 Mb SPI BIOS
<b>Watchdog Timer</b>	1-255 sec or 1-255 min software programmable, can generate system reset
<b>Hardware Monitor</b>	CPU/System temperature, fan speed and onboard DC voltages
<b>Operation Systems</b>	Windows® XP, 7 32/64-bit Red Hat Enterprise Linux 6.0

### I/O Interfaces

<b>Serial ATA</b>	2x SATA 6 Gb/s ports 4x SATA 3 Gb/s ports Supports RAID 0/1/5/10
<b>Expansion Slots</b>	1x PCIe x16, 1x PCIe x4, 5x PCI slots
<b>USB</b>	12x USB 2.0 ports (4x faceplate, 8x onboard pin headers)
<b>KB/MS</b>	2x Mini-DIN for PS/2 keyboard/mouse
<b>Parallel Port</b>	1x LPT
<b>Serial Port</b>	5x RS-232 + 1x RS-232/422/485

### Audio

<b>Audio Codec</b>	Realtek ALC892
<b>Interface</b>	Line-in, Line-out, Mic-in

### Display

<b>Graphics</b>	Intel® HD Graphics integrated in processor
<b>VGA</b>	Up to 2048 x 1536 @ 75 Hz (QXGA)
<b>DVI</b>	DVI-D connector, up to 1920 x 1200 @ 60 Hz
<b>HDMI</b>	2x HDMI Type A connector, up to 1920 x 1200 @ 60 Hz

### Ethernet

<b>Controller</b>	Intel® 82579LM + 82574L
<b>Interface</b>	PCI Express x1 bus
<b>iAMT</b>	Supports Intel® AMT 7.0
<b>Wake On LAN</b>	Support on LAN1

### Mechanical and Environmental

<b>Form Factor</b>	ATX
<b>Dimensions</b>	305mm x 244mm (W x L)
<b>Operating Temp.</b>	0°C to 60°C
<b>Storage Temp.</b>	-20°C to 80°C
<b>Certifications</b>	CE, FCC Class A
<b>Relative Humidity</b>	10% to 90%, non-condensing

### Ordering Information

Model Number	Description/Configuration
M-342	ATX Intel® Core™ i7/i5/i3/Pentium® Industrial Motherboard

### Optional Accessories

Model Number	Description/Configuration
LGA1156 1U CPU Cooler	LGA1156 1U Thermal Module
LGA1156 2U CPU Cooler	LGA1156 2U Thermal Module
LGA1156 3U CPU Cooler	LGA1156 3U Thermal Module

### Packing List

M-342	M-342 I/O shield
1x 2-port COM port cable with bracket	2x SATA data cables
Driver CD	Quick Reference Guide

# Mouser Electronics

Authorized Distributor

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