

# SYS-SCM604M8486

Intel® 3<sup>rd</sup>/2<sup>nd</sup> Generation Core™ i7/i5/i3 Processor  
Q77 Chipset Based Compact System with 10x  
USB/ 6x COM Ports/ VGA/ DVI-I/ Dual Gigabit LAN



## FEATURES

- Intel® 3<sup>rd</sup>/2<sup>nd</sup> Generation Intel® Core™ i7/i5/i3 Processor in Socket 1155
- Four 240-pin DIMM sockets Dual-channel DDR3 1066/1333/1600 SDRAM. Max. up to 32 GB memory
- Intel® Q77 Express chipset
- Intel® WG82579LM & Realtek® RTL8111DL on board for Dual GbE LAN
- Integrated Intel® HD Graphics with VGA/DVI-I connectors
- RealTek® ALC886 5.1 Channel High Definition Audio chip on-board
- Multi I/O: 4x USB 3.0, 6x USB 2.0, 6x COM ports, 2x SATA 3.0, 4x SATA 2.0
- Expansion Slot: 1 PCIe x16, 1 PCIe x4, 2 PCI slots

## Introduction

SYS-SCM604M8486 Compact System based on the Intel® Q77 Express Chipset, supports Intel® 3<sup>rd</sup>/2<sup>nd</sup> Generation Core™ i7/i5/i3 Processor. Integrated with Intel® HD Integrated Graphic Controller, 6x Com Port, 4x USB 3.0, 6x USB 2.0, 2x SATA 3.0, 4x SATA 2.0.

SYS-SCM604M8486 is ideal for developing high-performance systems for industrial Automation and control.

## Specification

System	
Processor	<ul style="list-style-type: none"> <li>3<sup>rd</sup>/2<sup>nd</sup> Generation Intel® Core™ processors (22nm process technology)</li> <li>LGA 1155 socket</li> </ul>
BIOS	<ul style="list-style-type: none"> <li>AMI BIOS - 64Mbit SPI BIOS</li> </ul>
System Memory	<ul style="list-style-type: none"> <li>Four 240-pin DDR3/DDR3L DIMM sockets</li> <li>Supports DDR3/DDR3L 1333/1600MHz when operating at 1.5V</li> <li>Supports dual channel memory interface</li> <li>Supports up to 32GB system memory</li> <li>DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC</li> </ul>
Chipset	<ul style="list-style-type: none"> <li>Intel® Q77 Express Chipset</li> </ul>
Video	<ul style="list-style-type: none"> <li>Intel® HD Graphics 4000 (i7); HD Graphics 2500 (i5/i3/Pentium)</li> <li>Display ports: DVI-I (DVI-D signal) and VGA</li> <li>DVI: resolution up to 1920x1200 @ 60Hz</li> <li>VGA: resolution up to 2048x1536 @ 75Hz, 32-bit</li> <li>Intel® Clear Video Technology</li> <li>Intel® Advanced Vector Extensions (Intel® AVX) Instructions</li> <li>Supports DirectX 11 and OGL 3.0</li> </ul>
Ethernet	<ul style="list-style-type: none"> <li>Intel® WG82579LM with iAMT8.0 Gigabit Ethernet Phy</li> <li>Realtek® RTL8111DL PCI Express Gigabit Ethernet controller</li> <li>Integrated 10/100/1000 transceiver</li> <li>Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab</li> </ul>
On Board I/O	<ul style="list-style-type: none"> <li>1x Connector for PS/2 Mouse/Keyboard</li> <li>6 x Serial ports (2x RS-232/422/485 selectable )</li> <li>1 x Parallel Port</li> <li>2 SATA 3.0 ports with data transfer rate up to 6Gb/s</li> <li>4 SATA 2.0 ports with data transfer rate up to 3Gb/s (SATA port 4 provides adequate space for SATA DOM)</li> <li>Integrated Advanced Host Controller Interface (AHCI) controller</li> <li>Supports RAID 0/1/5/10</li> <li>12 USB: 4 USB 3.0, 6 USB 2.0 ports</li> <li>1x 8 bit Digital I/O</li> </ul>
Watchdog Timer	<ul style="list-style-type: none"> <li>Programmable watchdog timer for 1~255 seconds.</li> </ul>
CMOS	<ul style="list-style-type: none"> <li>On-board RTC with 242 bytes of Battery-back CMOS RAM.</li> </ul>
Audio	<ul style="list-style-type: none"> <li>Realtek® ALC886 5.1-channel High Definition Audio</li> <li>Audio outputs: Mic-in/Center+Subwoofer, line-in/surround and line-out</li> <li>S/PDIF audio interface</li> </ul>
Power	<ul style="list-style-type: none"> <li>One 24pins power connector for system power.</li> <li>One ATX-12V 8-pins connector for CPU power.</li> <li>Support both AT and ATX mode.</li> </ul>
Cooling	<ul style="list-style-type: none"> <li>One CPU cooling FAN connector nearby CPU socket</li> </ul>

## Mechanical & Environment

Drive bays	Totally 3 drive bay: 2x 5.25" CD and 1 x 3.5" HDD bay Drive bay equipped with anti-vibration function
Front Panel	Two USB 2.0 ports at front bezel
Motherboard	uATX Motherboard
Fan	One 90mm intake fan
Power Supply	PS2 or hot swappable redundant P/S (Option)
Expansion	4 Slot for uATX Motherboard
Color	Beige/Black
Dimension	410(D) x 275(W)x 175(H)mm
Weight	N.W: 8.1 KG.W: 9.1 KGS
Operating Temperature	0°~50°C
Storage Temperature	-40°~70°C
Relative Humidity	5~95%, non-condensing
Storage Humidity	5% ~ 95%
Altitude	10,000 Feet (3000 m)
Vibration (Operating)	1.5G Max
Shock	10G peak acceleration (10Msec duration)

## Ordering Information

SYS-SCM604M8486-C0	Intel® 3 <sup>rd</sup> /2 <sup>nd</sup> Generation Core™ i7/i5/i3 Processor Q77 Chipset Based Compact System with 10x USB/ 6x COM Ports/ VGA/ DVI-I/ Dual Gigabit LAN (Beige)
SYS-SCM604M8486-C1	Intel® 3 <sup>rd</sup> /2 <sup>nd</sup> Generation Core™ i7/i5/i3 Processor Q77 Chipset Based Compact System with 10x USB/ 6x COM Ports/ VGA/ DVI-I/ Dual Gigabit LAN (Black)

