

# SYS-SCM604M8491

## Intel® 4<sup>th</sup> Generation Core™ i7/i5/i3 Processor Q87 Chipset Based Compact System with 12x USB/ 6x COM Ports/ HDMI/ DVI-I/ Dual Gigabit LAN



### FEATURES

- Intel® 4<sup>th</sup> Generation Intel® Core™ i7/i5/i3 Processor in Socket 1150
- Four 240-pin DIMM sockets Dual-channel DDR3 1066/1333/1600 SDRAM. Max. up to 16 GB memory
- Intel® Q87 Express chipset
- Intel® I210 & I217LM 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, 8x USB 2.0, 6x COM ports, 2x SATA 3.0, 1x SATA 2.0
- Expansion Slot: 2 PCIe x16 (1 x16 and 1 x1 signal), 1 PCIe x4, 1 PCIe x1

### Introduction

SYS-SCM604M8491 Compact System based on the Intel® Q87 Express Chipset, supports Intel® 4<sup>th</sup> Generation Core™ i7/i5/i3 Processor. Integrated with Intel® HD Integrated Graphic Controller, 6x Com Port, 4x USB 3.0, 8x USB 2.0, 6x SATA 3.0.

SYS-SCM604M8491 is ideal for developing high-performance systems for industrial Automation and control.

### Specification

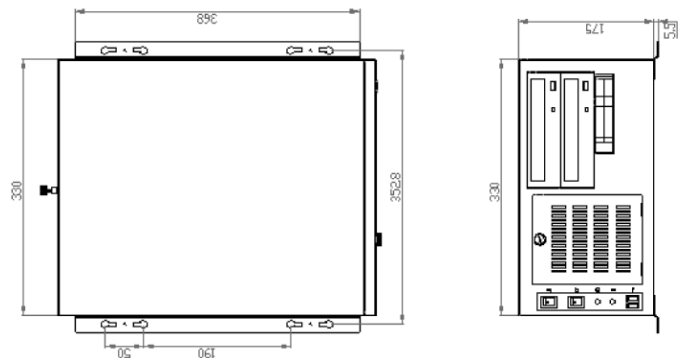
System	
Processor	<ul style="list-style-type: none"> <li>• 4th Generation Intel® Core™ processors (22nm process technology)</li> <li>• LGA 1150 socket</li> </ul>
BIOS	<ul style="list-style-type: none"> <li>• AMI BIOS - 64Mbit SPI BIOS</li> </ul>
System Memory	<ul style="list-style-type: none"> <li>• 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® Q87 Express Chipset</li> </ul>
Video	<ul style="list-style-type: none"> <li>• Intel® HD Graphics</li> <li>• Display ports: HDMI and DVI-I</li> <li>• DVI-I supports up to 1920x1200 @ 60Hz resolution</li> <li>• HDMI supports up to 4096x2304 @ 24Hz resolution or 2560x1600 @ 60Hz resolution</li> <li>• VGA display resolution up to 1920x1200 pixels with 24-bit color @ 60Hz</li> <li>• Intel® Clear Video Technology</li> <li>• Supports 20 Graphics Execution Units (EUs)</li> <li>• Intel® Advanced Vector Extensions (Intel® AVX) Instructions</li> <li>• DirectX Video Acceleration (DXVA) support for accelerating video processing</li> <li>• Supports DirectX 11.1 and OpenGL 4.0</li> </ul>
Ethernet	<ul style="list-style-type: none"> <li>• Intel® I210 PCI Express Gigabit Ethernet controller</li> <li>• Intel® I217LM with iAMT9.0 Gigabit Ethernet Phy</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>• 6 SATA 3.0 ports with data transfer rate up to 6Gb/s</li> <li>• Integrated Advanced Host Controller Interface (AHCI) controller</li> <li>• 12 USB: 4 USB 3.0, 8 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

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SYS-SCM604M8491	Intel® 4 <sup>th</sup> Generation Core™ i7/i5/i3 Processor Q87 Chipset Based Compact System with 12x USB/ 6x COM Ports/ HDMI/ DVI-I/ Dual Gigabit LAN



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