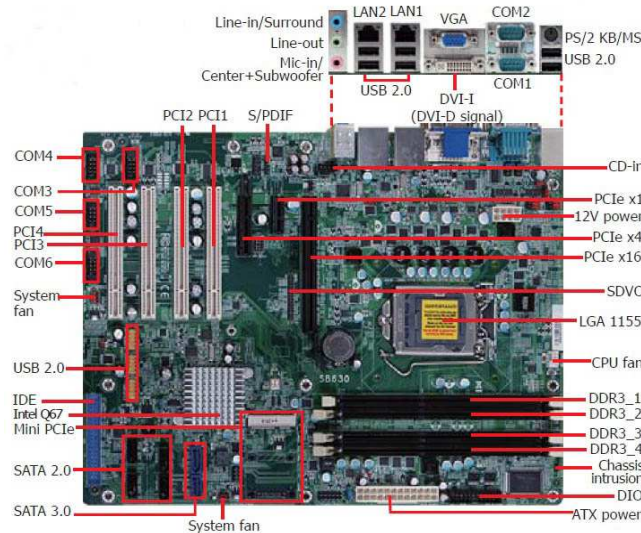


## Industrial Mainbord SB630-CRM

**1 PCIe x16, 1 PCIe x4, 1 PCIe x1 oder 1 Mini PCIe und 4 PCI Slots**



### Features:

|                 |  |
|-----------------|--|
| CHIPSET         | <b>Intel® Q67</b>  |
| CPU             | <b>3rd Generation Intel® Core™<br/>2nd Generation Intel® Core™</b> |
| MEMORY          | <b>4 DDR3 DIMM up to 32GB</b>                                      |
| EXPANSION       | <b>1 PCIe x16, 1 PCIe x4<br/>1 PCIe x1 or 1 Mini PCIe, 4 PCI</b>   |
| DISPLAY OUTPUTS | <b>1 DVI-I (DVI-D signal), 1 VGA</b>                               |
| LAN             | <b>2 Gigabit LAN ports</b>   |
| COM             | <b>6 COM</b>   |
| USB             | <b>12 USB 2.0</b>  |
| STORAGE         | <b>6 SATA: 2 SATA 3.0, 4 SATA 2.0<br/>1 IDE</b>                    |
| DIO             | <b>8-bit DIO</b>   |

### Specification:

#### PROCESSOR

- LGA 1155 socket for:
  - 3rd generation Intel® Core™ processors (22nm process technology) (Rev. A00 or later)
  - Intel® Core™ i7-3770 (8M Cache, up to 3.9GHz); 77W
  - Intel® Core™ i5-3550S (6M Cache, up to 3.7GHz); 65W
  - Intel® Core™ i3-3220 (3M Cache, 3.3GHz); 55W
  - Intel® Pentium® G2120 (3M Cache, 3.1 GHz); 65W
  - 2nd generation Intel® Core™ processors (32nm process technology)
  - Intel® Core™ i7-2600 (8M Cache, up to 3.8 GHz); 95W
  - Intel® Core™ i5-2400 (6M Cache, up to 3.4 GHz); 95W
  - Intel® Core™ i3-2120 (3M Cache, 3.3 GHz); 65W
  - Intel® Pentium® G850 (3M Cache, 2.9 GHz); 65W
  - Intel® Advanced Vector Extensions (Intel® AVX) Instructions
  - Intel® Turbo Boost Technology

#### CHIPSET

- Intel® Q67

#### SYSTEM MEMORY

- Four 240-pin DDR3 DIMM sockets
- Supports DDR3 1333/1600MHz (3rd generation processors)
- Supports DDR3 1066/1333MHz (2nd generation processors)
- Supports dual channel memory interface
- Supports up to 32GB system memory
- DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

#### EXPANSION SLOTS

- 1 PCIe x16 slot
- Supports Gen 3.0 (3rd generation processors)
- Supports Gen 2.0 (2nd generation processors)
- 1 PCIe x4 slot (PCIe 2.0)
- 1 PCIe x1 slot (PCIe 2.0) or 1 Mini PCIe slot (PCIe 2.0)
- 4 PCI slots (PCI 2.3: supports universal PCI card)

#### ONBOARD GRAPHICS FEATURES

- Intel® HD Graphics
- Display ports: DVI-I (DVI-D signal) and VGA
- DVI-I supports up to 1920x1200 @ 60Hz resolution
- VGA supports up to 2048x1536 @ 75Hz resolution
- Supports 6 Graphics Execution Units (EUs)
- Intel® Clear Video Technology
- DirectX Video Acceleration (VDPA) support for accelerating video processing

#### ONBOARD AUDIO FEATURES

- Realtek ALC886 5.1-channel High Definition Audio
- Audio outputs: Mic-in/Center+Subwoofer, line-in/surround and line out
- S/PDIF audio interface

#### ONBOARD LAN FEATURES

- Intel® WG82579LM with iAMT8.0 Gigabit Ethernet Phy
- Intel® WG82574L PCI Express Gigabit Ethernet controller
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

#### SERIAL ATA (SATA) INTERFACE

- 6 Serial ATA ports
- 4 SATA 2.0 ports with data transfer rate up to 3Gb/s (SATA port 4 provides adequate space for SATA DOM)
- 2 SATA 3.0 ports with data transfer rate up to 6Gb/s
- Integrated Advanced Host Controller Interface (AHCI) controller
- Supports RAID 0/1/5/10

#### INTEL ACTIVE MANAGEMENT TECHNOLOGY (AMT)

- Supports iAMT8.0
- Out-of-band system access
- Remote troubleshooting and recovery
- Hardware-based agent presence checking
- Proactive alerting
- Remote hardware and software asset tracking

#### TRUSTED PLATFORM MODULE (TPM) - optional

- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

#### REAR PANEL I/O PORTS

- 1 mini-DIN-6 port for PS/2 mouse/keyboard
- 2 DB-9 serial ports
- Supports RS232/422/485 (RS232 and/or Power)
- 1 DB-15 VGA port
- 1 DVI-I port (DVI-D signal)
- 2 RJ45 LAN ports
- 6 USB 2.0/1.1 ports
- Line-in/Surround, Line out, Mic-in/Center+Subwoofer jacks

#### I/O CONNECTORS

- 3 connectors for 6 external USB 2.0/1.1 ports
- 4 connectors for 4 external RS232 serial ports
- 1 SDVO connector for the optional SDVO-LVDS daughterboard
- 1 8-bit Digital I/O connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in connector
- 1 S/PDIF connector
- 6 Serial ATA ports
- 1 IDE connector
- 1 24-pin ATX power connector
- 1 8-pin 12V power connector
- 1 chassis intrusion connector
- 1 front panel connector
- 3 fan connectors

#### BIOS

- AMI BIOS
- 64Mbit SPI BIOS

#### ENERGY EFFICIENT DESIGN

- Supports ErP Lot6 power saving (optional)
- Supports ACPI
- System Power Management
- Wake-On-Events include:
  - Wake-On-PS/2 KB/Mouse
  - Wake-On-USB KB/Mouse
  - Wake-On-LAN
- RTC timer to power-on the system
- CPU stopped clock control
- AC power failure recovery

#### DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors V<sub>CORE</sub>/5V/3.3V/V<sub>DIMM</sub>/12V/5VSB voltages and failure alarm
- Monitors CPU/system fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

#### POWER CONSUMPTION

- 101.10 W with i7-2600 at 3.40GHz and 2x 2GB DDR3 DIMM

#### TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

#### HUMIDITY

- 10% to 90%

#### DIMENSIONS

- ATX form factor
- 305mm (12") x 244mm (9.6")

#### CERTIFICATION

- CE
- FCC Class B
- UL
- RoHS