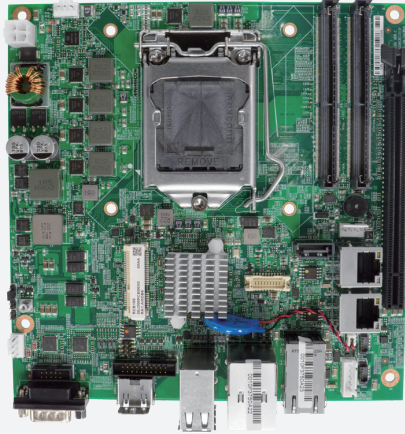


RCB100

Robot Control Main Board



Main Features

- Mini-ITX Form Factor
- 6th Gen Core™ i7/i5/i3 and Intel® Celeron
- Internal USB for software license dongle
- Optional digital isolated I/O
- PoE for machine vision application
- Internal VGA for teach pendant

Product Overview

RCB100 is designed for robotic control application. RCB100 equips with rich I/Os for robot control application, including 2 x I210 LAN port for EtherCAT communication, 1 x VGA port to connect to teach pendant, and 2 x USB 2.0 for software license dongle. RCB100 also comes with isolated digital I/O for multiple usages and PoE port to connect to industrial camera.

Specifications

CPU

- Socket LGA1151, Intel® 6th and next generation Core™ i7/i5/i3 processor and Intel® Celeron® processors, 14nm process

RAM

- Dual DDR4/SO-DIMMs, up to 32GB

Chipset

- Intel® H110 PCH

On Board Interface

- 2 x I210-AT GbE LAN
- 2 x USB 2.0
- 1 x VGA (1920 x 1200@60Hz)
- 1 x RS232/422/485 with auto flow control
- 12in(NPN/ PNP type), 4out(NPN type) (need optional board)

Display

- 1 x HDMI (4096x2160 @24Hz, 24 bpp)

Extension slot

- 1 x PCIe16 Gen3
- 1 x miniPCIe
- 1 x SATA

Edge I/O interface

- 1 x RS232/422/485 with Auto flow control (default RI)
- 2 x USB 3.0, 4 x USB 2.0
- 2 x I211AT GbE LAN (one port can be PoE port, IEEE 802.3af compliant, need optional PSE board)

Audio

- Not support

Power input

- Support At/ ATX mode
- ATX 4-pin connector for 24V ± 10%

Form Factor

- Dimensions: Mini-ITX (6.7-in x 6.7-in)

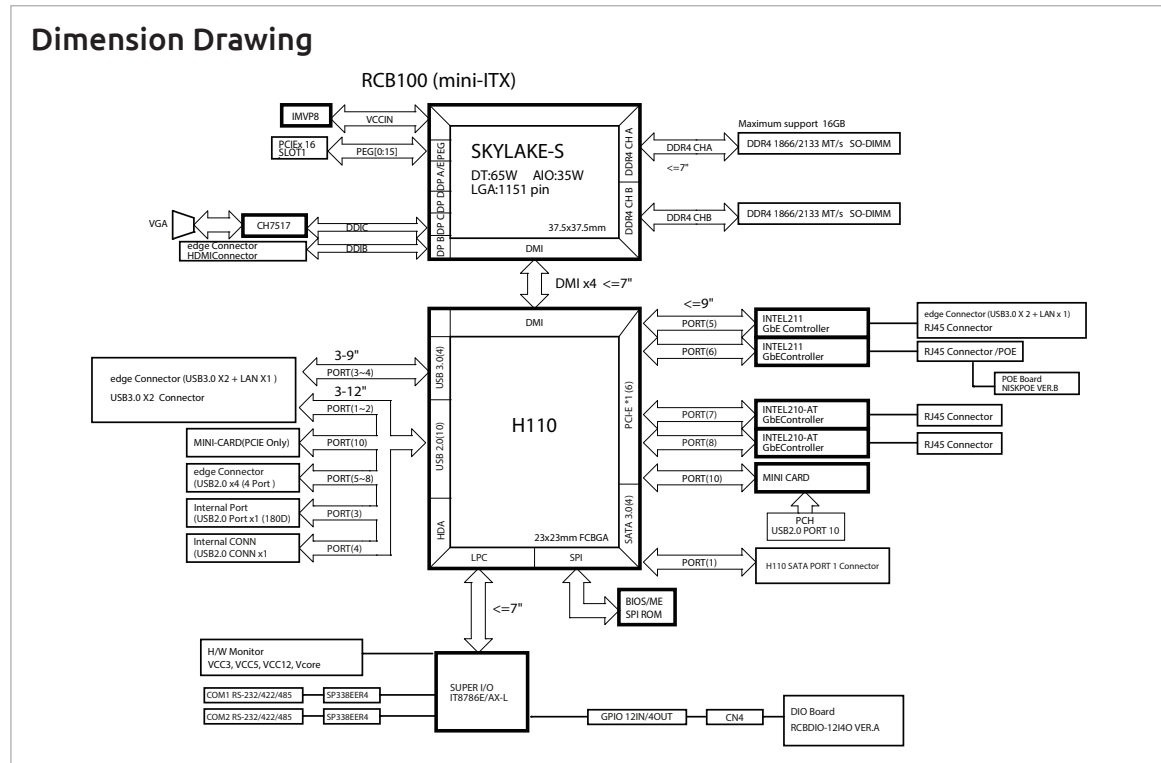
Environment

- Operating temperatures: 0°C to 60°C with CPU fan and system fan
- Storage temperature: -20°C to 80°C
- Relative humidity: 90%

Certifications

- CE
- FCC Class A
- EN61000-6-4 / EN61000-6-2

www.nexcobot.com



Ordering Information

- **RCB100 (P/N: 10J200RCB00X0)**
MiniITX Intel® 6th-Gen Core™ i7/i5/i3/Celeron board
- **NISKPoE (P/N: 10J200RCB04x0)**
PoE PSE Module

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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