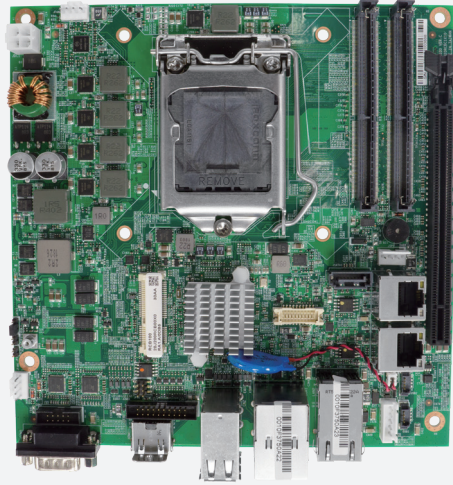




Main Features

- ♦ 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)

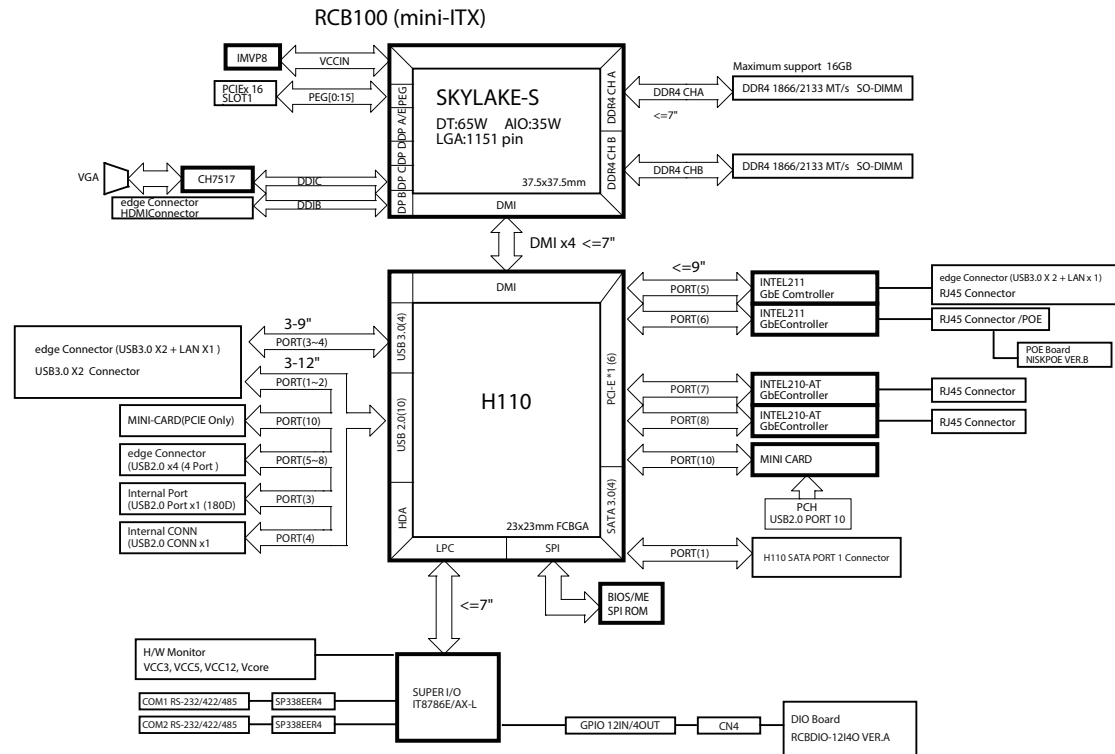
Environment

- ♦ 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

Dimension Drawing



Ordering Information

- **RCB100 (P/N: 10J200RCB00X0)**
MiniITX Intel® 6th-Gen Core™ i7/i5/i3/Celeron board
- **RCBDIO12140 (P/N: TBD)**
Isolated 12in, 4out digital I/O board
- **NISKPoE (P/N: TBD)**
PoE PSE Module

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[10J200RCB00X0](#) [10J200RCB04X0](#)