



QBiX-Pro-KBLB7100HD-A1

Industry's first 5G enabled embedded Industrial system with Intel® Core™ i3-7100U Processor/ Din Rail/ 2-side aluminum

Key Features

- System Size : 160W x 118D x 62.6H(mm)
- Intel® Core™ i3-7100U Processor
- Dual Channel DDR4, 2 x SO-DIMMs
- HDMI, Display port for Dual display
- 2 x GbE LAN port
- 5G module support

Application

- Embedded & Industrial Applications
- Industrial Automation
- IoT System
- DVR / Surveillance

SPECIFICATION

This fanless solution already passed 5G verification of ChungHwa Telecom 5G Laboratory in Taiwan in 2020 May.

QBiX-Pro-KBLB7100HD-A1 is the first embedded system to support 5G module in the industrial market. It allows you to enjoy 5G features : **eMMB (Enhanced Mobile Broadband)**, **mMTC (Massive Machine Type Communications)**, **URLLC (Ultra-reliable and Low Latency Communications)**, to connect devices and transmit data in your operating environment without any time lag, to enhance "**smart factories**" which includes industrial automation, artificial intelligence, machine learning, and IoT applications. It covers from early supply management to logistic process in the end that it allows robots and equipments to be remotely operated, controlled and monitored with 5G network, and take necessary actions to repair or maintainance.

It is equipped with Intel® Core™ i3-7100U Processor, which provides stability and high performance for embedded system. With DIN rail mounting design and 5G mobile network, work space layout can be more flexible and well planned. It is suitable for various environments with 9V~36V wide range power input and operating temperature of 0°C~50°C. The system provides IEC 60068-2-64 vibration resistance of 5 Grms with SSD @5~500Hz, random, to meet industrial standard.

Automation

QBiX-Pro-KBLB7100HD-A1

GIGAIPC Launched
Industry's First **5G**
Enabled Embedded
Computing System

Supply Management

Assembly Line

Operations Control

Robot Motion Control

Inventory Management

Delivery Management

5G

intel IoT Solutions Alliance

DIMENSION	160W x 118D x 62.6H(mm)
CPU	Intel® Core™ i3-7100U Processor 14nm, 2 cores, 4 threads, up to 2.4 GHz TDP 15W 3 MB SmartCache
MEMORY	2 x DDR4 SO-DIMM sockets, Max. Capacity 32GB Support Dual channel DDR4 2133 MHz memory module

ETHERNET	2 x GbE LAN ports (Intel® i219V and Intel® i211AT)
GRAPHIC	Integrated Graphics Processor - Intel® HD Graphics 620: 1 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz 1 x DP port, supporting a maximum resolution of 4096x2160 @60Hz (2 independent display outputs)
AUDIO	Realtek ALC269 High Definition Audio
STORAGE	1 x 2.5" HDD/SSD (SATA 6Gb/s)
EXPANSION SLOTS	1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (WiFi/BT) 1 x 3052 M.2 B-Key (Full-size mPCIe optional) * Wi-Fi, 5G Module and antennas are optional.
FRONT I/O	2 x RJ45 LAN ports 4 x USB 3.0 2 x USB 2.0 1 x HDMI 1 x Display Port 1 x COM port (RS-232/422/485 and RI/5V/12V) 1 x COM port (RS-232/422/485) 1 x Power switch 1 x HDD LED 1 x Headphone Jack
REAR I/O	1 x Din Rail Mounting Support
SIDE I/O	1 x GPIO (8 bits) 1 x 3-pin Terminal Block 5 x External Antenna Hole (Optional)
POWER	+9~36VDC (Full Range)
OPERATION TEMPERATURE	Operating temperature: 0°C to 50°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 0%-95% (non-condensing) Use wide temperature range memory and storage
VIBRATION DURING OPERATION	Operation: IEC 60068-2-64, 3 Grms, random, 5 ~ 500 Hz, 1 hr / Per Axis, With SSD/M.2 2280 Non-operation: IEC 60068-2-6, 2 G, Sine, 10 ~ 500 Hz, 1 Oct/min, 1 hr / Per Axis
SHOCK DURING OPERATION	Operation: IEC 60068-2-27, 50 G, half sine, 11 ms duration, With SSD
PACKAGING CONTENT	Box Packing Capacity: 6pcs Carton size: 416x409x347(mm) Content: SCREW HDD M3x3L*4 (P/N: 25984G-1C014-S00) TERMINAL BLOCKS MALE PLUG (P/N: 25IO0-5ESDV0-D2R) TERMINAL BLOCKS 1*10P (P/N: 25IO0-EC3810-D2R)

MOUNTING	DIN Rail Wall mount (Optional)
ORDER INFORMATION	6BQP7100CMR-SI