FUTUREROBOT 未来机器人

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Introduction of Products and Services

深圳市卓信创驰技术有限公司

Future Robot Technology Co., Limited

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Company Profile

Future Robot Technology Co., Ltd. is located in Shenzhen,China. It is a national high-tech enterprise focusing on intelligent manufacturing and artificial intelligence. The company integrates R&D, production, system integration and sales services. With superb R&D strength as the core and market demand as the guide, the company provides embedded products for global enterprises and individual users. Products are mainly used in industrial automation, robotics, machine vision, medical, intelligent transportation, finance, education, Internet of Things (IoT) and other fields.
The company's technical team consists of X86, FPGA software and hardware engineers, algorithm engineers, system engineers and test engineers. The core team members have more than 15 years of industry experience and have rich project experience in the fields of industrial computer, machine vision and control; have Appearance design and structural design engineers can provide various complex and multi-board appearance design, model design and product open-mould mass production services.
Future Robot Technology Co., Ltd. is a member of Intel® IoT Solutions Alliance and a supplier of Intel® IoT RFP Ready Kits. Based on advanced technical capabilities and excellent operation management, we are committed to providing reliable, convenient and competitive hardware and system solutions for partners in the fields of intelligent manufacturing and artificial intelligence.

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Technical Features

XEON®	Kaby Lake	Comet Lake	Alder Lake 2022 Q4
CORE®S	Kaby Lake	Coffee Lake	Comet Lake 2022 Q3
CORE®U	Whiskey Lake	Tiger Lake 2022 Q3	
ATOM®	Apollo Lake	Elkhart Lake 2022 Q3	

intel

CYCLONE V

CYCLONE 10

XILINX

Artix

Kintex

CPU

INTEGRATED GRAPHICS

Intel® Graphics Technology

If higher performance is needed

FPGA

Heterogeneous

Computing Platform

30+

Independent R&D and customized development solutions

10+

Apollo Lake Platform Solutions

80% +

Applied in the field of control

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Technology Platform

Apollo Lake Platform

Apollo Lake Platform

Comet Lake-S Platform

Tiger Lake-U Platform

Whiskey Lake Platform

Apollo Lake + Sensor + FPGA

Elkhart Lake Platform

Alder Lake Platform

Kaby Lake Coffee Lake Platform

Apollo Lake +Sensor+FPGA

Drivers, function libraries, control libraries, standard system interfaces

\+

...

Expansion Cards with FPGA

\+

...

X86 + FPGA Heterogeneous Computing Platform

...

Expansion Cards Capture Cards

...

Smart industrial cameras, etc.
Image acquisition and processing equipment

...

Embedded Industrial Computers

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Customization services

Fast

Commercialized

Bottom Layer

Software and hardware support

Three Levels

Supply Guarantee System

Optimize

Cost Structure

Various customizable solution libraries and hardware libraries

Based on the platform hardware core board scheme library

Platform Core Library for X86 Architecture Multiple platforms available

Various sizes, optional configurations, customizable

Flexible and customizable expansion boards
Various sizes, interfaces and configurations are optional and can be customized

Supporting software, drivers and function libraries

Customized products that can be delivered quickly and quickly

ODM/OEM service process of non-standard design

Communication of needs

Communicate with customers, and clarify demand information

Product Proposal

Determine the scheme through experiments, and provide the best development scheme for customers to choose

Project Evaluation

Discuss program risks and assess feasibility with customers, and determine product implementation plans

Product Trial Production

The project team implements product development and design, and provides samples to customers for confirmation

Trial Production Confirmation

Do a good job in mass production through small batch trial production, process data and sample sealing confirmation

Mass Production Delivery

Perfect delivery service and lower than industry average delivery time for mass production

Product Description

The embedded industrial computer of Future Robot has the characteristics of high stability, high integration, dustproof and shock resistance, compact, small and durable, suitable for various application requirements. Modular computer, multi-network launched according to application in different fields Multi-export computers and mini-computers provide users with a wide range of IoT solutions and help the development of edge computing. The capture card and expansion card have the characteristics of high performance, high compatibility and high stability, and are suitable for Expansion and access of connected devices. Products have been widely used in industrial automation, smart transportation, Internet of Things, industrial equipment management, power and energy, medical care, self-service terminals, digital signage, multimedia playback, high-definition entertainment, government and enterprise offices and other occasions.

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High Performance Embedded Industrial Computer

Max. 6 Serial Ports

Optional RS232/RS485

Max. 6 GbE LANs

One Intel NIC chip per port

Max. 64 Road

DI/DO based on FPGA

Gen9 CPU | Multiple | Fanless | Customized

- Intel 6th to 9th generation desktop processors
- 2 DP and 1VGA, Max. 4K UHD dual independent display
- Max. 4 USB 3.0 and 4 USB 2.0
- 1 Remote interface (Excluding E500 series)
- DIO SDK available (E510 Series)
- Rugged and fanless design

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Future Robot Technology Co., Limited

Highly Scalable Embedded Industrial Computer

Max. 4 Slots

Supporting Full-size Pcle GPU Cards

Max. 6 GbE LANs

One Intel NIC chip per port

Max. 6 Ports

3 RS-232 and 3 RS-485/RS-232

Gen9 CPU　Scalable　High performance　Customized

- Intel 6th to 9th generation desktop processors
- 2DP and 1VGA, Max.4K UHD dual independent display
- Max. 4 USB 3.0 and 4 USB 2.0
- 1 Remote interface(ExcludingE500series)
- Supports full-size GPU cards* (E531Series only)
- Rugged and fanless design

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Small and Compact Embedded IPC

3 Inches	Max. 4 Groups	Max. 2 Groups	Max. 5 GbE LANs	Max. 4 COMs
Ultra-compact design	Isolated DI/DO	Lights Control	One NIC chip per port	Optional isolated RS485

Apollo Lake　Compact　fanless　Customized

- Intel Apollo Lake SoC
- M.2 and 2.5“ SATA* Slots (*E310 only)
- Dual independent display with HDMI and DP
- 1M.2 E-Key slot, Wi-Fi modules available
- 1 Mini-PCIe Slot, 4G LTE available
- Rugged and fanless design

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Vision Controller

Max. 16 Road

DIO Powered By FPGA

Max. 6 GbE LANs

One Intel NIC chip per port

4 Ports

802.3af PoE available

Multiple network ports | PoE | fanless | customized

- Intel whiskey Lake-U CPUs SoC
- 1 DVI-I
- Max. 32GB DDR4 2400MT/s RAM
- 1RS-232,1 RS-485
- 4 USB 3.0
- OS: Windows 10 loT LTSCLinux

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Vision Contoller-V510

Max. 32 Groups

Dry and wet compatible DIO

Max. 6 GbE LANs

One Intel NIC chip per port

6 Groups

Light control interfaces

- Intel 6th to 9th generation desktop processors
- 2 DP and 1VGA, Max.4KUHD dual independent display
- Max. 4 USB 3.0 and 4 USB 2.0
- 1 Remote interface (Excluding E500 series)
- DIO SDK available
- Rugged and fanless design

High performance

Rich interfaces

fanless

customized

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All-in-one IPC

12~20 Inches	10 Points	IP 65	Max. 6 GbE LANs
HD Industrial Display	Capacitive multi-touch screen	Screen Protection Level	One Intel NIC chip per port

Rich interfaces | fanless | customized

Apollo Lake | Whiskey Lake | Tiger Lake

- Intel® Apollo lake/Whiskey lake/Tiger lake-U SoC
- Multiple screen resolutions available
- 10 points capacitive multi-touch screen
- Max.32GB DDR4 2400MT/s RAM
- DIO SDK available with DIO models
- Multiple screen sizes available
- OS: Windows 10 loT LTSC，Linux

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All-in-one IPC- X 1 5 0

15.6 Inches
HD Industrial Display

10 Points
Capacitive multi-touch screen

Max. 6 GbE LANs
One Intel NIC chip per port

IP 65
Screen Protection Level

Apollo Lake | Rich interfaces | fanless | customized

- Intel® Apollo lake Celeron ® J3355/3455 or Pentium ® J4205 CPU
- 15.6-inch 1366x768 high-resolution industrial high-brightness TFT LCD screen
- 10 points capacitive multi-touch screen
- Optional minute-level UPS uninterruptible power protection
- Max.32GB DDR4 2400MT/s RAM
- DIO SDK available with DIO models
- Multiple screen sizes available
- OS: Windows 10 loT LTSC，Linux

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USB or LAN Interfaces Expansion Cards

x4 Slots
Based on PCIe Gen2.0

4 Ports
PoE/PoE+(C100)

4 Ports
GbE LAN or USB 3.1

- One intel® i210/i211 NIC Chip per port for C100/C110
- One USB card with 2 independent host controller chips
- NIC support full-duplex, half-duplex intelligent detection of adaptive
- On-board 5V DC regulated power supply design, no additional power supply required
- NIC supports 9KB jumbo frames
- Stable on Linux and Windows 10

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Single Board Computer RXE-5100

Max. 65 W
Standard TDP Design

64 Mbit SPI
AMI UEFI BIOS

4 GbE LANs
Controlled by Intel chip

Gen10 CPU | Rich interfaces | Edge node
High Performance | Compact | Customized

- Support Intel® Core i9-10900E,i7-10700E, i5- 10500E,i3-10100E,Pentium® Gold G6400E. Celeron ® Processor G5900E CPU
- Intel H420 Chipset
- Max.32G 2933 MT/s DDR4 Dual Channel SO-DIMM
- 1 x VGA & 1 x DP
- 1 x PCIE x4 Gen3 slot on board
- 1 x USB3.0/PCIE x2 slot on board, 2 x M.2
- 2 x USB 3.1 Gen 2 & 2 x USB 3.1 Gen1

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Single Board Computer RXE-5200

Max. 32

DI/DO

64 Mbit SPI

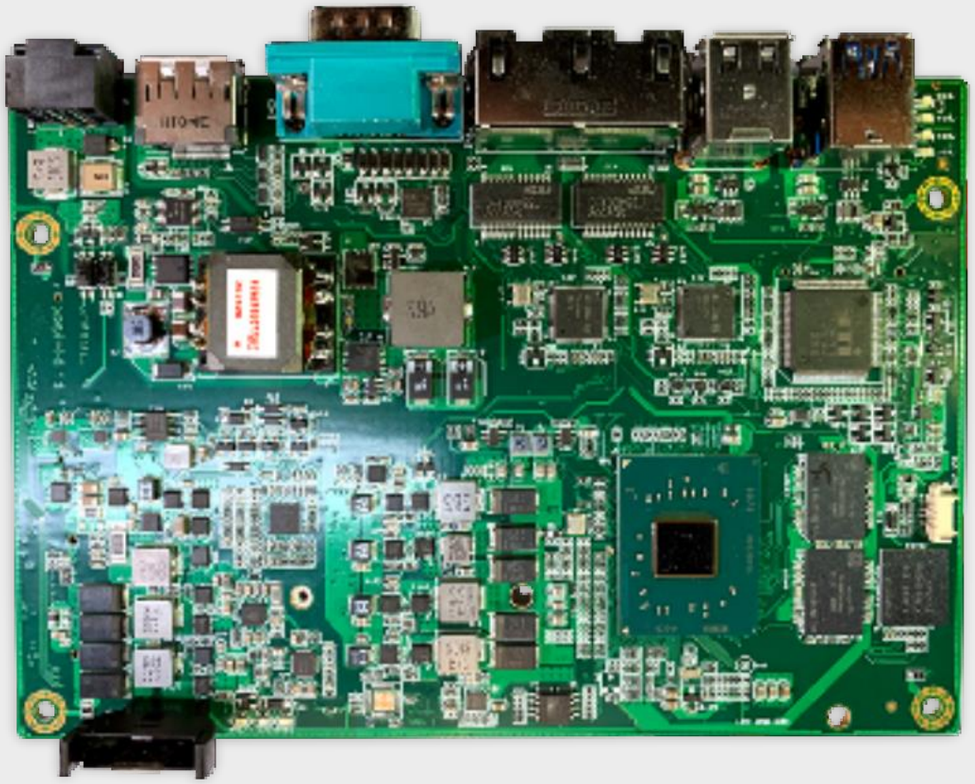
AMI UEFI BIOS

4 GbE LANs

Controlled by Intel chip

Scalable　customized　fanless

Apollo Lake　rich interfaces　Edge node



·Intel Pentium J4205/Pentium N4200/Celeron J3455/Celeron J3355 Processors

·AMI UEFI BIOS at 64 Mb

·Max.16 GB LPDDR4-2400MT/S RAM

·Intel Gen9 Graphic Engine

·Support DP1.2a(4096x2160 @60Hz)

·4 Intel i211-AT GbE LAN

·16xDI,16x DO

·Support Windows 10 loT LTSC,Linux

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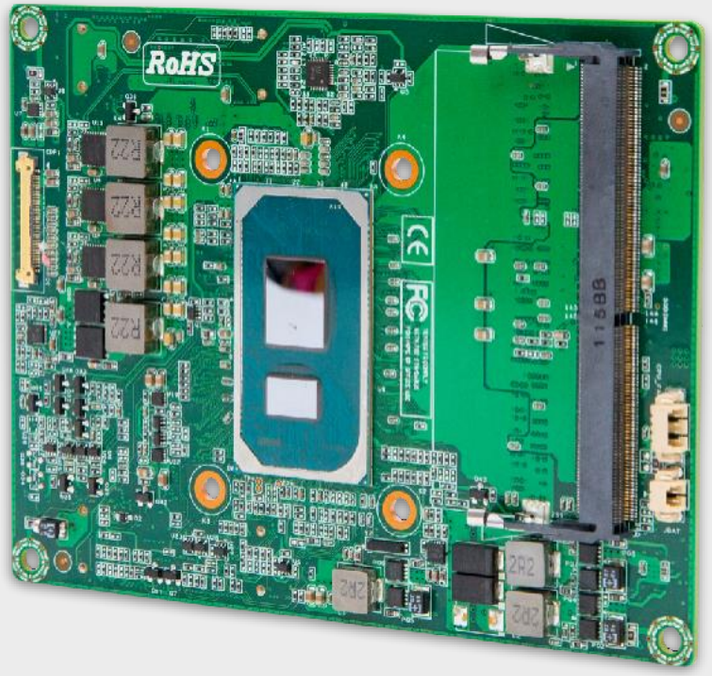
Single Board Computer RXE-6100

Max. 15 W
Standard TDP Design

128 Mbit SPI
AMI UEFI BIOS

2 CONN
B2B Expansion Connector

Gen11 CPU
B2B connector
Edge node
AI computing
Scalable
Customized



- Support Intel Core i7-1185G7E,Intel Core i5-1145G7E, Intel Core i3-1115G4E, Intel Celeron 6305E
- Max.32G 3200 MT/s DDR4
- 2xB2B CONN
- 1xeDP
- Support Windows 10 IoT LTSC, Linux
- Support Fanless Design
- 125x 95mm(Lx H)

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Single Board Computer-IEM2160 Series

2.5″ Pico-ITX Industrial Single Board Computer

Scalable　Customized　fanless

Apollo Lake　rich interfaces　A M R

- Intel Apollo Lake N3350/N4200/J3355/J3455/J4205 SoC
- Up to 8G LPDDR4 Soldered RAM Support
- Intel Gen 7 DirectX 11.1
- Dual Independent Display: 48-bit LVDSVGA,DP/HDMI
- 1x Full-size Mini-PCle,·1xMicro-SIM
- 2 COM, 1 SATA, 1 M.2, 5 USB, 1 GbE
- 1 x Board to Board Connector
- 2 x 64 Pin Connectors
- Support Watch Dog
- Windows 10 loT、Linux Os
- Dimensions:100x72 mm