

Встраиваемые решения от компании Advantech

Александр Барон
ПРОСОФТ

Позиция Advantech на рынке одноплатных компьютеров

Marketing Share for Standalone Boards: EMEA

	2014	2015	Diff. 14-15
1 Advantech	19.0%	19.5%	0.5%
2 IEI Technology	12.0%	11.5%	-0.5%
3 Fujitsu Technology	11.0%	11.0%	0.0%
4 AAEON	9.0%	9.5%	0.5%
5 Aiomtek	6.0%	6.0%	0.0%
5 Kontron	5.0%	4.5%	1.0%

2014: US\$197.1M, 2015: US\$203M

Marketing Share for Standalone Boards: America

	2014	2015	Diff. 14-15
1 Advantech	19.0%	17.0%	-2.0%
2 Supermicro	13.0%	13.5%	0.5%
3 Avalue	9.5%	10.0%	0.5%
4 AAEON	7.0%	8.0%	1.0%
5 IEI Technology	4.5%	4.5%	0.0%

2014: US\$232.8M, 2015: US\$224.4M

2016 IHS

ADVANTECH
#1 в мире

Marketing Share for Standalone Boards: Asia Pacific

	2014	2015	Diff. 14-15
1 Advantech	28.0%	30.0%	2.0%
2 IEI Technology	9.0%	9.0%	0.0%
3 Portwell	9.0%	9.0%	0.0%
4 EVOC intelligent	8.0%	8.0%	0.0%
5 AAEON	7.0%	7.5%	0.5%

2014: US\$234.4M, 2015: US\$239.5M

2016 IHS

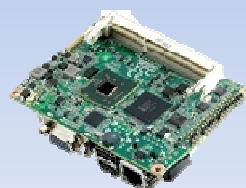
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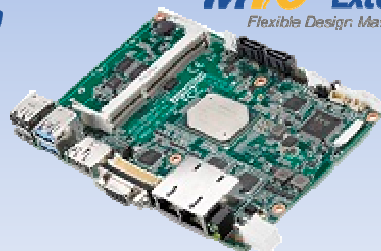
Предложение от Advantech

Расширение для будущего - MIOe

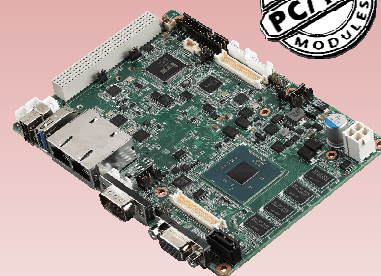
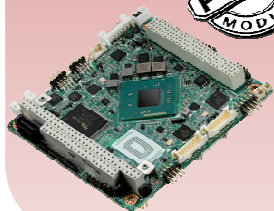
MIO Extension
Flexible Design Made Easy



MIO Extension
Flexible Design Made Easy



Устаревший интерфейс – PC/104



PC/104

96 x 90mm

Pico-ITX(2.5")

100 x 72mm

3.5"

146 x 102mm

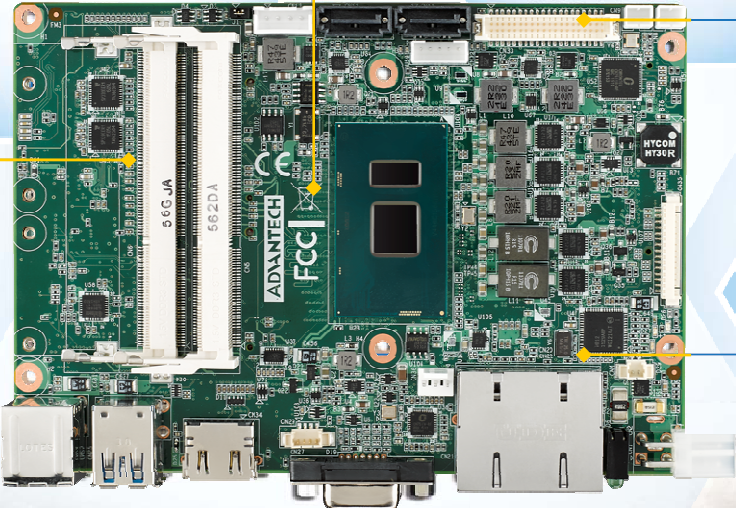
EBX/ 5.25"

203 x 146mm

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Надежная конструкция от Advantech



100% solid capacitor

15k cycles at 80°C
20,000 hrs
25X Lifecycle Improvement
2,000 hrs

Widespread Japan
Wide Temp. Endured Polymer Aluminum Solid Capacitor

Polymer Electrolytic Capacitor

-40~85°C Industrial-grade support

Signal Integrity Measurement
QA Verification -40°C ~ 85°C
HALT Testing
Military Class Certified

High TG PCB

Traditional PCB
Swelling inner layer

High TG PCB
Stable high temperature operation

High ESD protection

USB
IEC 61000-4-2 (ESD)
±15kV (air), ±5kV (contact)

VGA
IEC 61000-4-2 (ESD)
±15kV (air), ±5kV (contact)

LAN
IEC 61000-4-2 (ESD)
±8kV (air), ±4kV (contact)

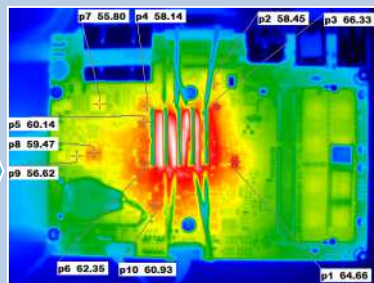
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Высочайшее качество – для жестких условий



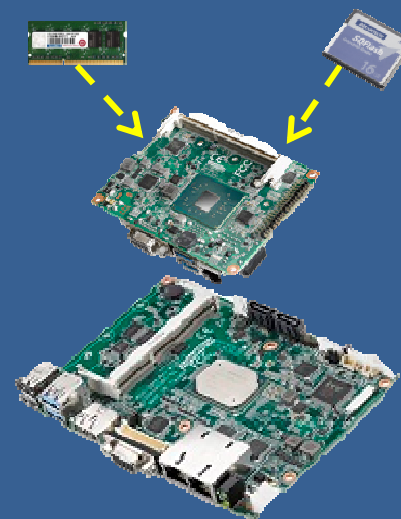
**Выбор
компонентов:**
Гарантия соответствия -
40~85°C



**Предварительное
тестирование:**
Тестирование
температурного профиля

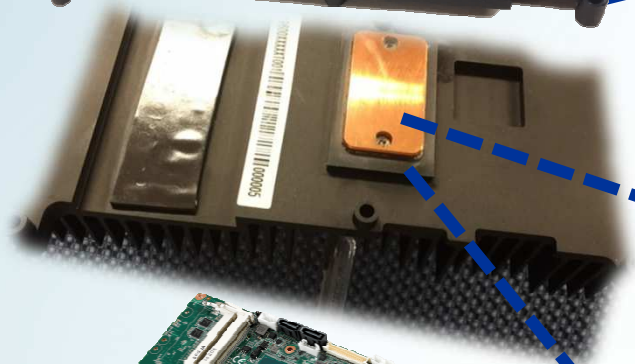


Проверка:
Практический тест -40~85 °C
IEC60068-2-1, IEC60068-2-2
IEC60068-2-78, IEC60068-2-14



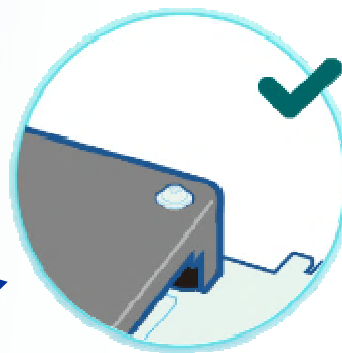
например MIO-5251EW
Массовое
производство:
Первые 300 шт. проходят
тест -40~85 °C
Другие выборочное

Кондуктивное охлаждение (DHCS)

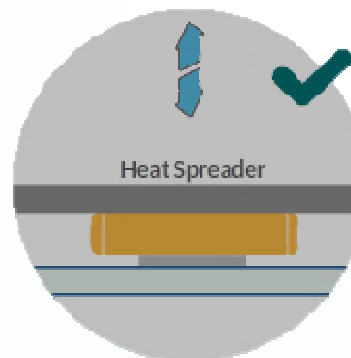


MIO-5272

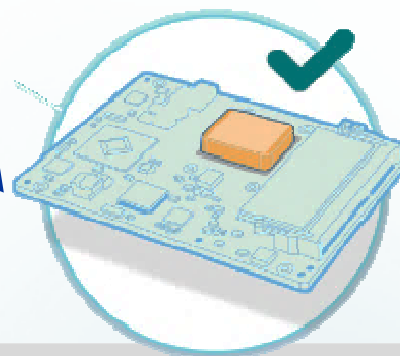
- 3.5", 146 x 102 мм
- Intel 6th Gen. Core i **15B**
- -40~85°C пассивное охлаждение



- Стандартные винты
- Точная сборка
- **Защита от вибрации**



- Автоматическая настройка высоты
- Прямой контакт (термопластина)
- **Лучший отвод тепла**
- **На 20°C ниже чем традиционная**



- Измеряемая нагрузка на ЦПУ
- Предотвращение изгибания платы
- **Высокая надежность**

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Для специальных задач



yocto
PROJECT



MIO-9366

- 3.5", 146 x 102 мм
- Intel N4200 и E3900
- 9~36 В
- CAN Bus, 16-bit GPIO



MIO-5350

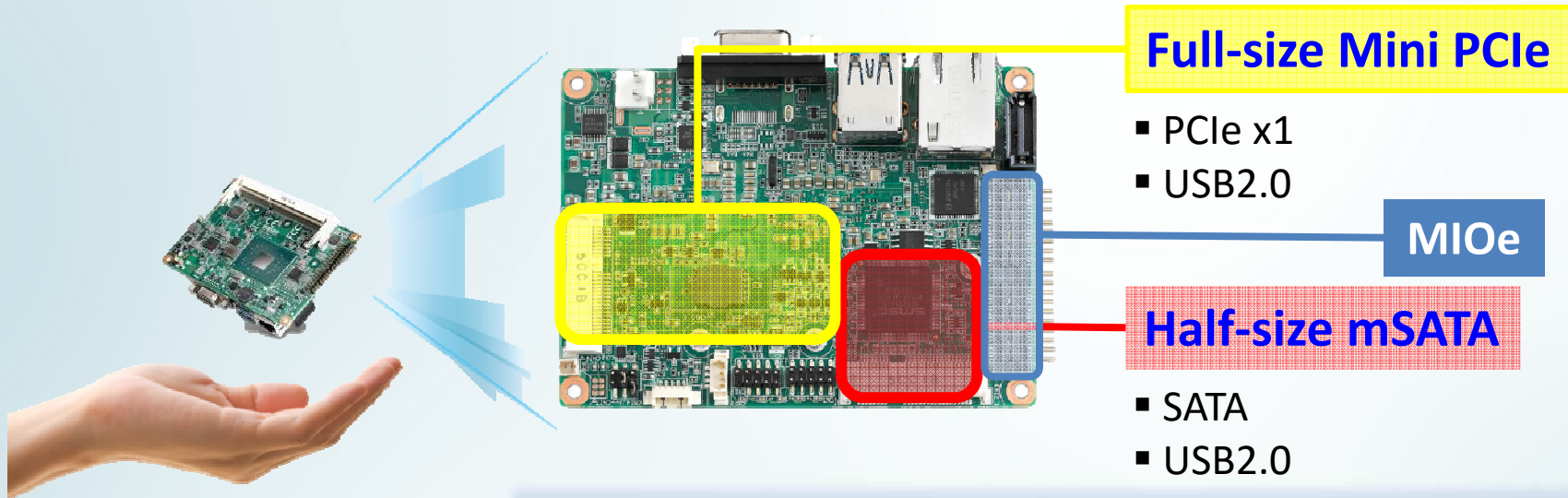
- 3.5", 146 x 102 мм
- Intel N4200 и E3900
- -40~85°C



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Компактные и разнообразны платы расширения



MIO-2360

- Pico-ITX, 100 x 72 мм
- Intel N4200 и E3900
- **Mini-PCle + mSATA**

Модули расширения Advantech

SQF Flash



mSATA / M.2 Storage
SLC, MLC, Ultra-MLC

EWM Wireless



mPCIe / M.2
Wifi, Bluetooth, GPS,
3G/4G LTE

EXM Modules

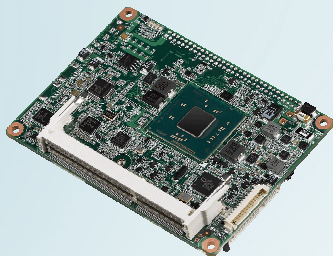


GbE, 2xUSB3.0, 4xUSB2.0,
2xCAN Bus, LVDS-to-VGA, 2xRS-
232, Parallel port

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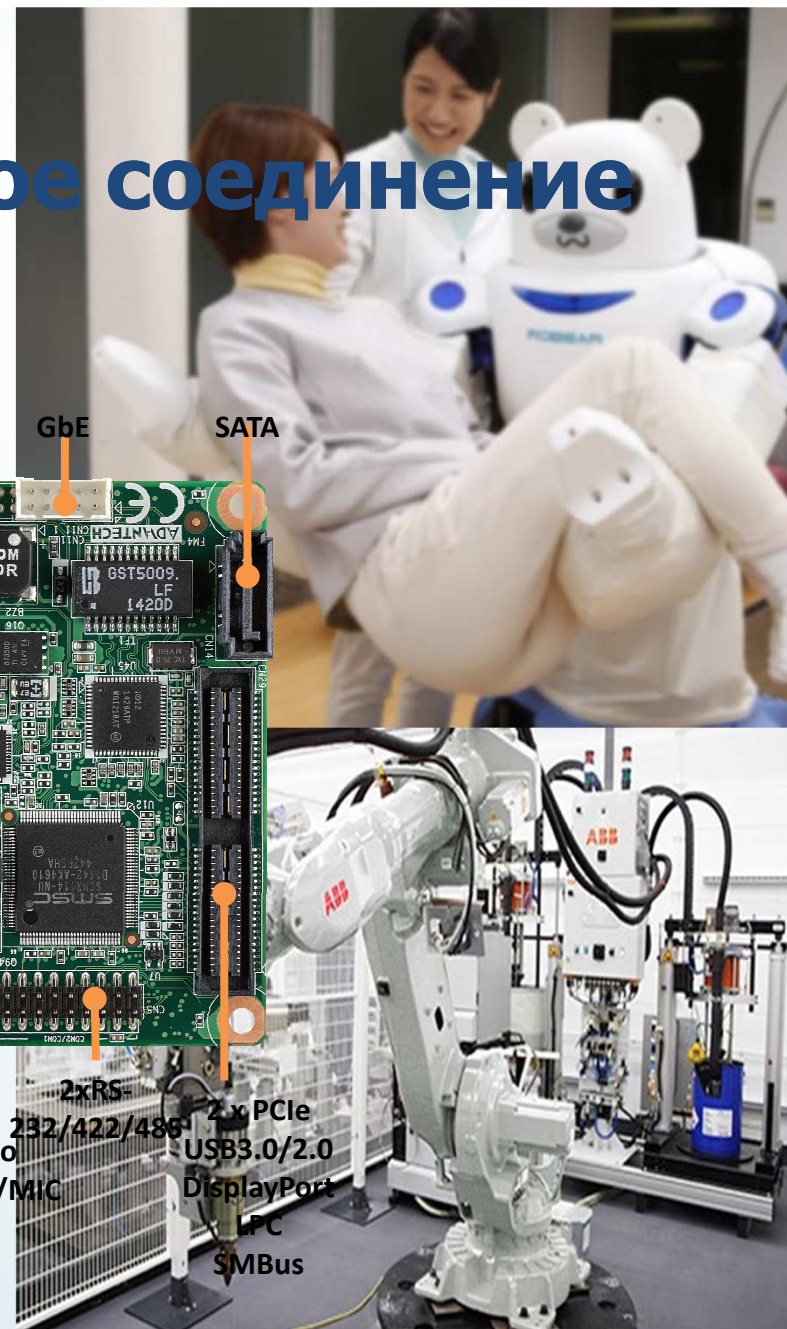
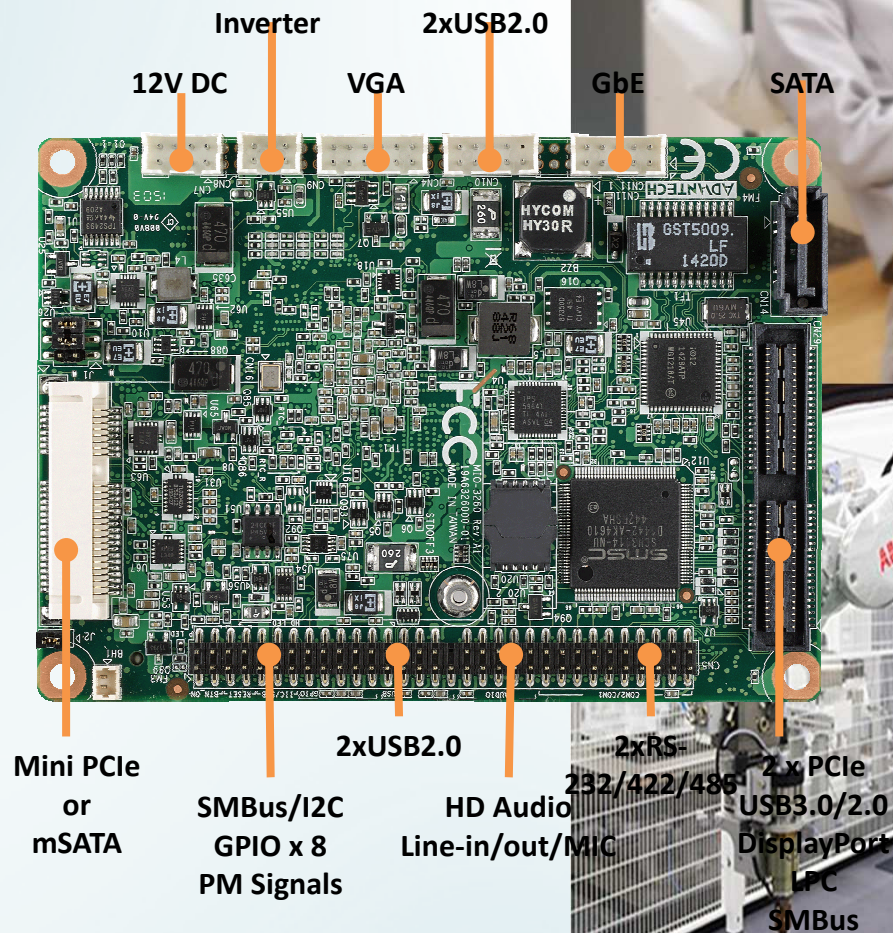
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Гибкая интеграция – кабельное соединение



MIO-3260

- Pico-ITX, 100 x 72 мм
- Intel E3800 и J1900
- **Кабельное соединение**



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Изделия с ЦПУ Intel Apollo Lake

MIO-2360

MIO-3360

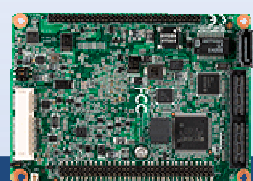
MIO-5350

PCM-9366

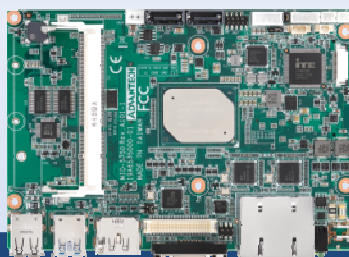
PCM-9563



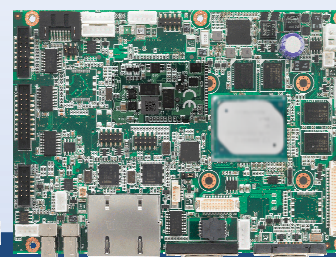
Q3'17



Q4'17



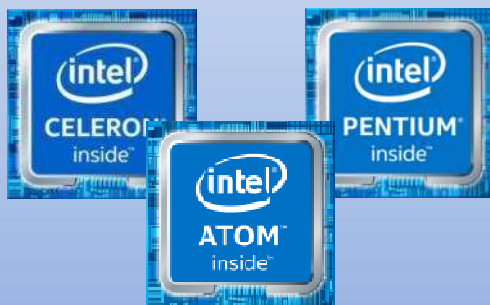
Q3'17



Q4'17



Q3'17



Увеличение производительности

Надежная конструкция

Новые и традиционные функции

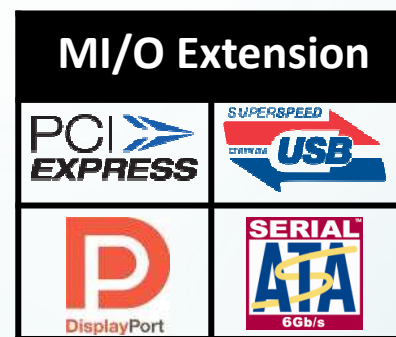
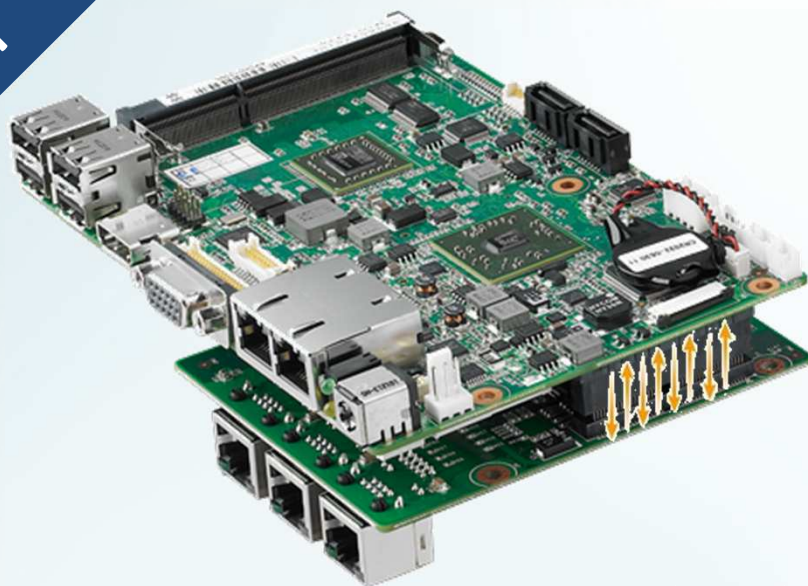
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Инновация - MI/O Extension

Расширяемые платы – MI/O

Готовые платы



Быстрая
разработка



Простое
обновление



Общее ядро



Поддержка

Advantech ESBC Design-in Services

<http://mio.advantech.com>

Заказные



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Особенности MI/O

4 PCIe1

GbE, PCI, USB3.0, SATA,
mini-PCIe ,COM ports,
FPGA



LPC

COM порты, GPIO,
PS/2

Low P in Count

SMBus

GPIO, управление питанием,
EEPROM или системные
коммуникации ...



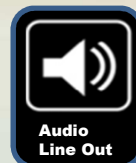
DisplayPort

HDMI, LVDS, DVI, CRT.
eDP



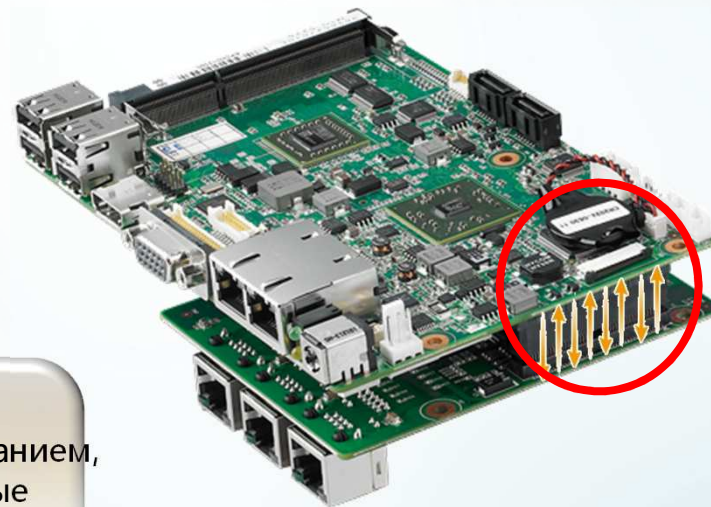
USB/Audio line out

Накопители,
усилитель



Питание

+12V/ +5V для
модулей MIOe



МІОе – стек для различных применений

Плата МІ/О

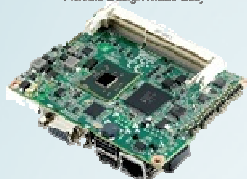


МІОе модуль



Различные рынки

MIO Extension
Flexible Design Made Easy



Pico-ITX

MIO Extension
Flexible Design Made Easy



3.5" SBC

Изолированные порты
COM и Ethernet

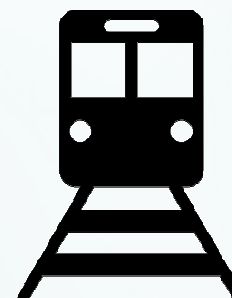
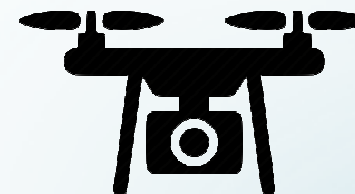
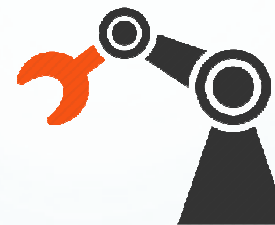
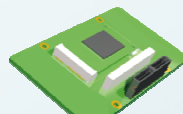


EtherCAT

Расширенное питание



Заказной модуль



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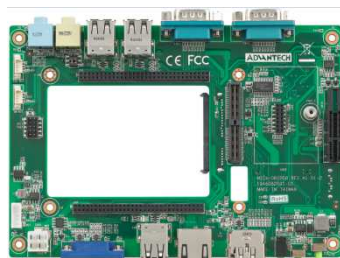
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Конструкторская документация для модулей MIOe

MI/O Extension – плата разработчика



MIOe-DB5000



MIOe-DB2000

MIOe Module - документация



Спецификации



Технологическая документация



База примеров



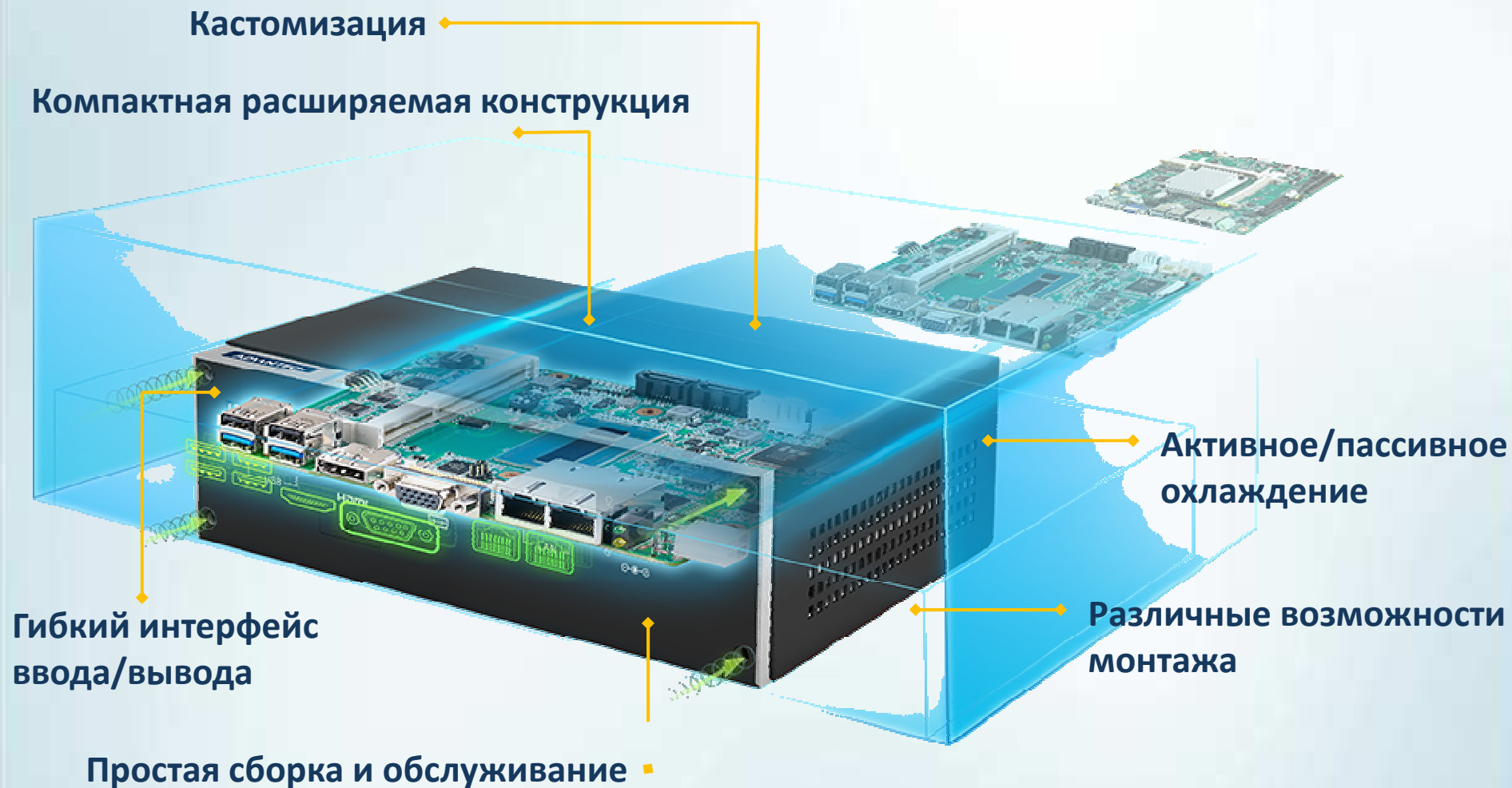
Чертежи (2D/3D)

Услуги по разработке Advantech

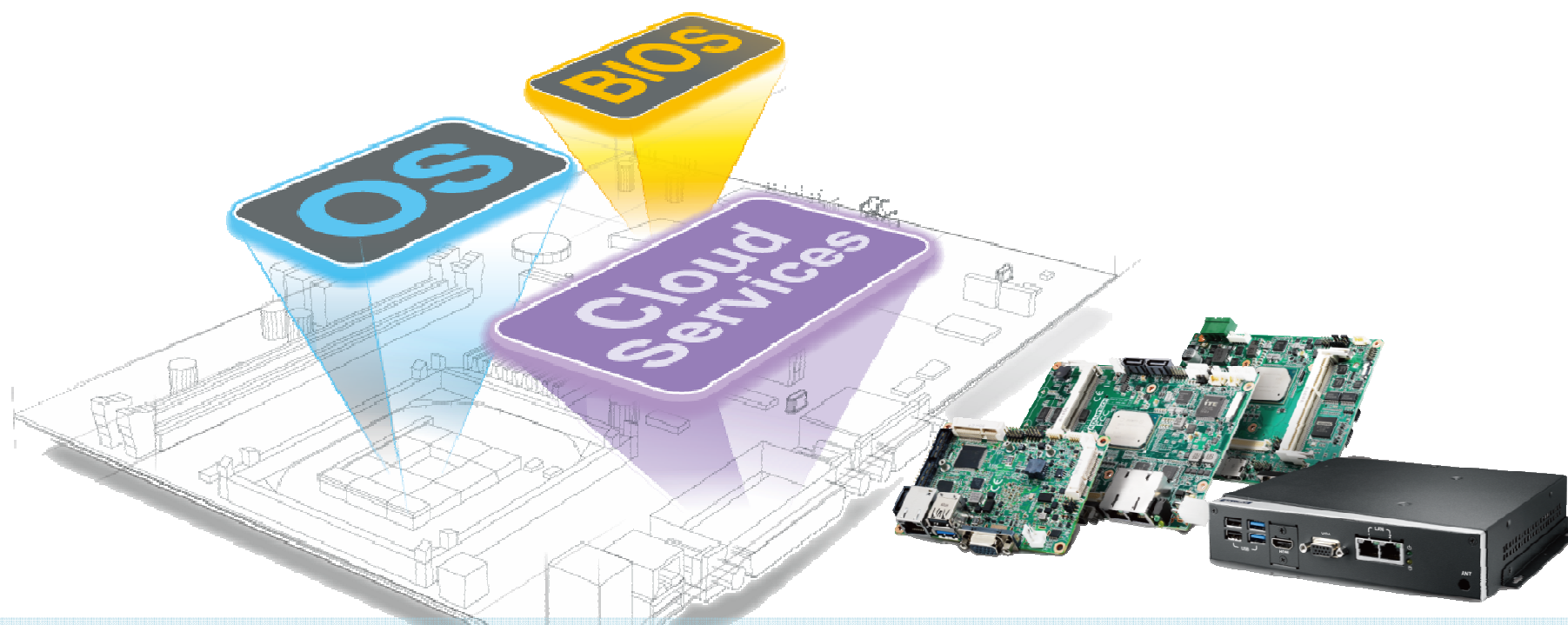
- Предоставление платы разработчика
- Предоставление документации
- Проверка схем
- Помощь в отладке
- Сайт поддержки MI/O :

[HTTP://MIO.ADVANTECH.COM](http://MIO.ADVANTECH.COM)

Преимущества для встраиваемых ПК



Программные услуги



Встраиваемый BIOS

- Модульный BIOS
- Утилиты uEFI
- Безопасный BIOS

Встраиваемая ОС

- Windows Embedded
- QNX
- VxWorks
- Linux

Промышленные облачные сервисы

- WISE-PaaS
- iManager
- McAfee Embedded Security
- Acronis Backup & Recovery



Windows Embedded



WIND RIVER

Acronis



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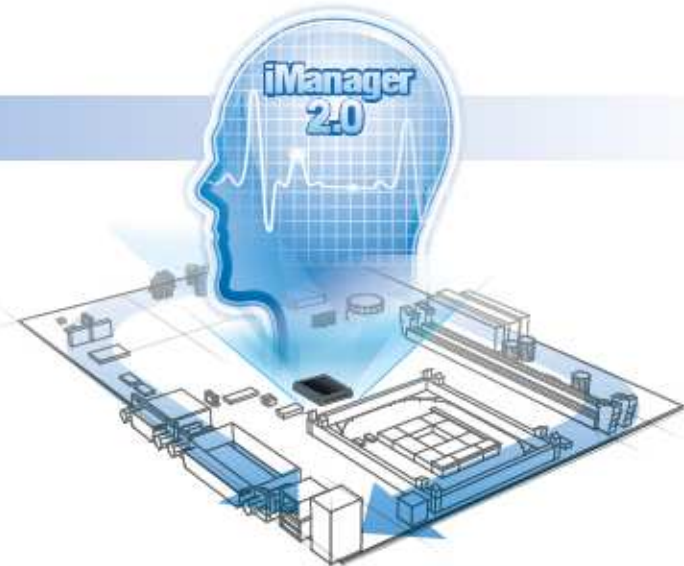
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Empowered by iManager

Facilitating Applications with Embedded Software

Intelligent iManager

MI/O Extension supports other add-on value functions through Advantech's unique iManager suite which combines hardware, software and firmware technologies together. iManager is an intelligent self-management cross platform tool that monitors system status for problems and reacts to take action if something is not normal. In MI/O Extension, iManager provides a bootup guarantee in critical low temperature environments so a system can automatically recovery when voltages dip. iManager makes the whole system more reliable and intelligent.



Advanced Watchdog

- Multi-Level
- Programmable



Hardware Monitoring

- Voltage
- Temperature
- Fan speed



Multi-control Interface

- I2C
- SMBus
- GPIO



Power Saving

- Deep Sleep



Unified S/W API/ Utility

- Smart Fan
- Smart Battery



Data Security Area

- 64 Bytes for Customer Data
- 8 Bytes key



Board Information

- Boot Record
- Running Hours
- Board Data



Brightness Control

- Brightness Control

<http://www.advantech.com.tw/embcare/imanager.aspx>

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WISE-PaaS IoT Software Platform Services



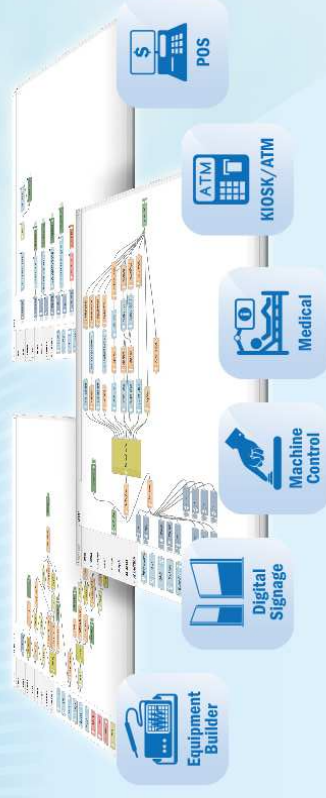
WISE-PaaS Alliance
For Embedded

150+

WISE-PaaS RESTful APIs

Remote Monitoring and Management	Security Management	Industrial Automation	Interactive Multimedia	Intelligent Video	Network Management
Account Management	Security Dashboard	Real-Time Data Access	Interactive Events	Channel Management	Topology Management
Device Management	Security Information/Event Management	Historical Data Analysis	Playback log	Live View Stream	Fault Management
Device Control	SIEM	Advanced Alarm Management	Events log	Playback Stream	Configuration Management
Event Management	Vulnerability Management	Action Logger	Account Management	Event Management	Performance Management
System Management	Global Threat Intelligence	Dashboard Editor & Viewer	Device Management	IVS Data Management	Device Management

SRP Node-RED Packages



Agent Software

WISE-PaaS/RMM	WISE-PaaS/Security	WebAccess/SCADA	WebAccess/IHM	WebAccess/IVS	WebAccess/NMS
Remote Monitoring and Management	Security Management	Smart HMI/SCADA	Interactive Multimedia	Intelligent Video	Network Management
- Centralized Management - High Availability - Sensor/Device Connectivity	- Vulnerability Manager - ePolicy Orchestrator - Global Threat Intelligence	100% Web-based - Easily Connect to IoT Devices - Cross Browser HTML5 Dashboard	- Server-Client Architecture - Multi-screen Display - Edit and Dispatch Programs	- Intelligent Video Platform - Intelligent Video Analytics - Modularized SDK Ready	100% HTML5 web-based - Device Connectivity Mgmt - Integration of Network Topology



WPAN Gateway



Intel® Quark™ Gateway



IDP-Compliant Gateway



Quad Core Gateway



Rugged System



Mini-ITX System



Digital Signage Player



Automation PC



DIN-Rail IPC



Intelligent Remote Terminal Unit



IoT Wireless I/O

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Строительные блоки

ADVANTECH
WISE-PaaS
IoT Software Platform



Windows IoT

yocto
PROJECT

Программная интеграция



Периферия



Беспроводная связь



Дисплеи Advantech



Корпуса 3.5" & Pico-ITX
EPC-S101/C300/X200

Аппаратная интеграция

SATA



USB



GbE



питание



Ввод/
вывод



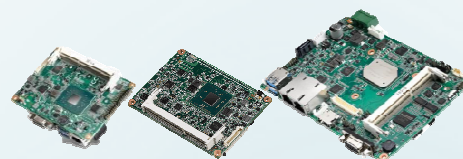
Видео



EXM I/O Extension Module

MIOe Vertical Expansion Module

Расширение портов ввода/вывода

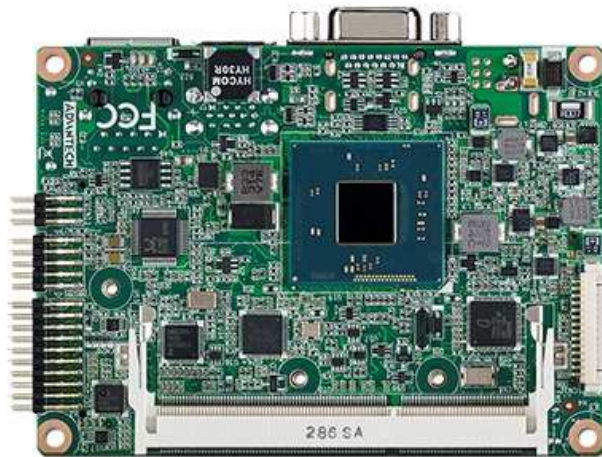


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MIO-2360

Intel Apollo Lake Pico-ITX SBC with 24-bit LVDS/ VGA/ HDMI/ LAN/ Full-size Mini-PCIe/
2 COM/ 1 mSATA/ 2 USB3.0/ 6 USB2.0/ MIOe3.0



2017/Q3
Phase In

2023/Q4
Longevity

Intel **Apollo Lake** Quad Core/Dual Core SoC
Single channel **DDR3L 1866** (SO-DIMM)
Memory size support up to **8GB**

Low Power Consumption
(Kit TDP: DC:**6W**, QC: **12W**)
Fanless and -40~85 wide temperature

Great graphic performance
Gen-9 Low Power; 18 Execution Units
4K Codec Decode& Encode for HEVC4, H.264, VP8, SVC, MVC

High Flexibility Design & MIOe Extension
Rear IO: VGA or HDMI/24-bit LVDS/ 1 GbE/ HD Audio
2 COM/ **2 USB3.0**/ 6 USB2.0/ 1 mSATA/ SMBus/ I2C
MIOe3.0 Extension / Mini -PCIe (Half-size)
Dual display support by **VGA+LVDS or HDMI+LVDS**

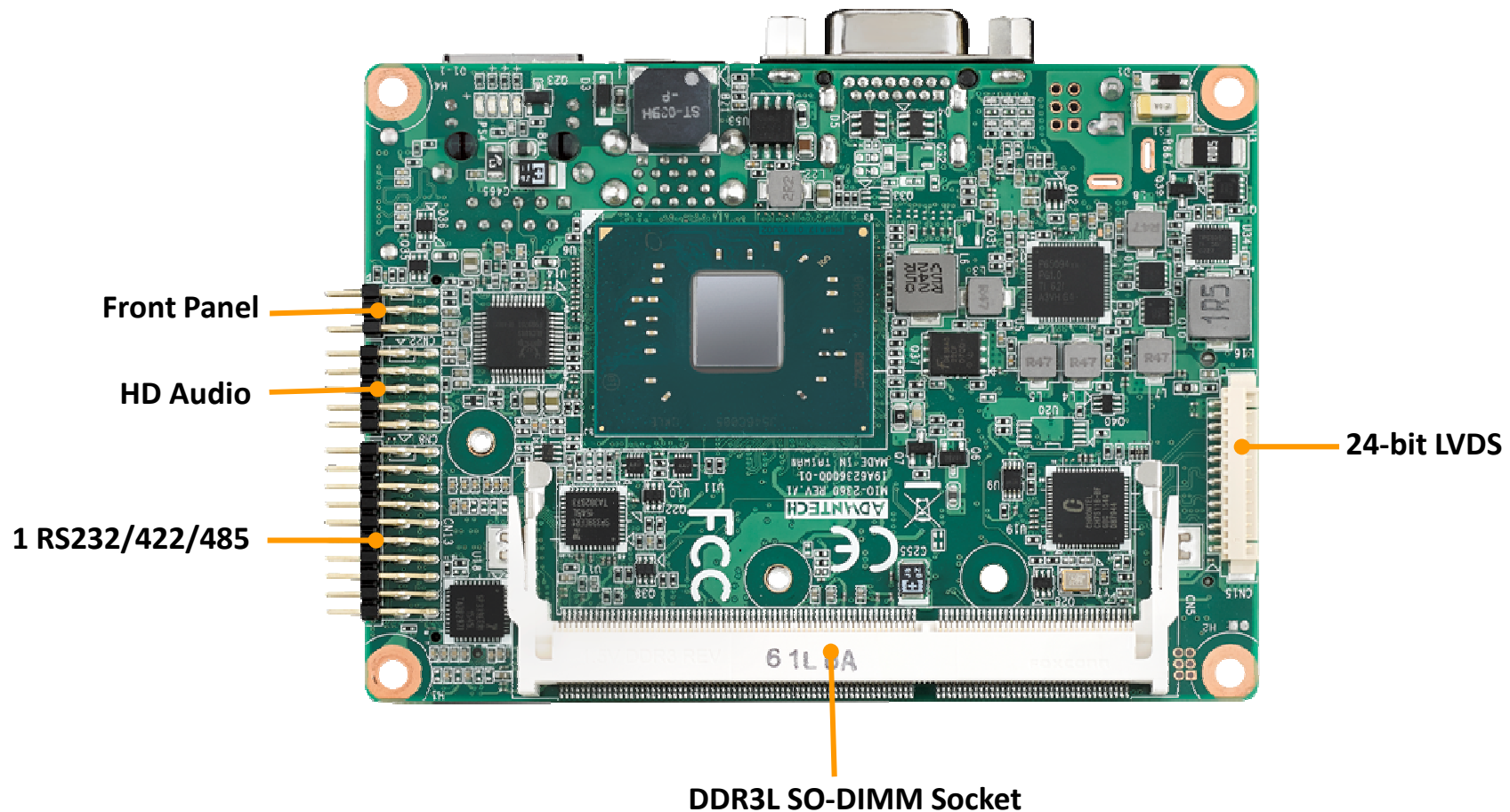
Supports Embedded Software API and Utility
Win7(32/64bit), Win8, Linux, VxWorks Support

2023/Q4 Longevity

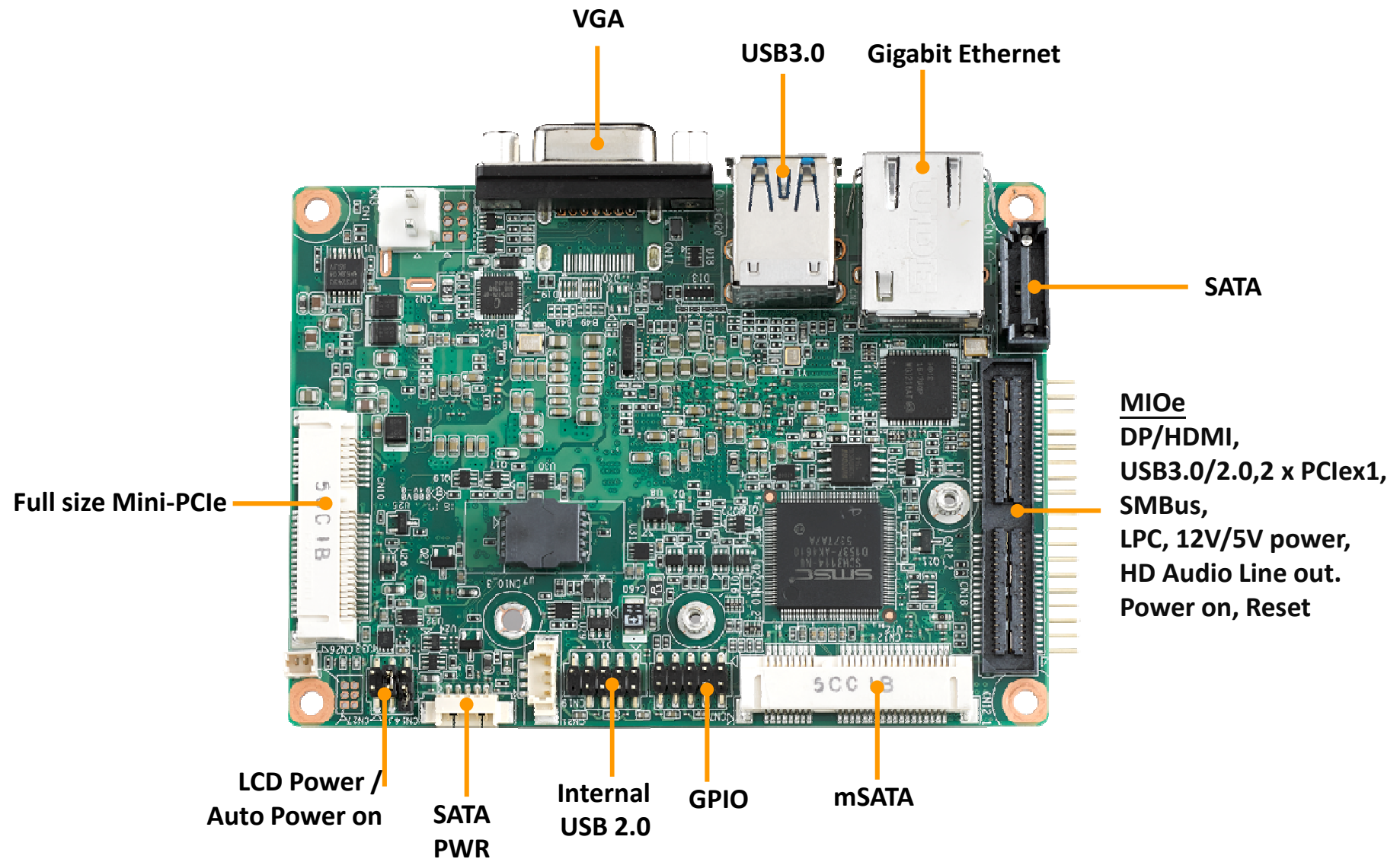
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MIO-2360 - верх



MIO-2360 - НИЗ



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MIO-5350

Intel Atom Apollo Lakee3.5" MI/O-Compact SBC, DDR3L, VGA, HDMI/DP, 48-bit LVDS/eDP, 2GbE,
Mini PCIe, mSATA, **M.2 E Key**, **TPM 2.0**, **MIOe3.0**



Конструкция аналогичная MIO-5251

Intel ATOM (Apollo Lake)Quad/Dual core, up to 12W
DDR3L 1867 MHz, up to 8GB
CPU Ext. Temp sku & all Fanless Design

3 independent display: VGA, LVDS/eDP, and HDMI/DP
Gen-9Low Power; 4K Codec Decode& Encode

Low Power Consumption (E3950 :13.92W)
12V DC input (2x2 power/DC Jack with hot plug)
Extended Temperature Operation (-40~85C)

2 Intel GbE/ 4 COM/ **4 USB2.0/ 2 USB3.0**
SATA III/ mSATA or Mini PCIe/1x M.2 E Key
MIOe 3.0 / Mini PCIe+ SIM holder

Advantech iManager & SUSIAccess
OS Support: Win8, Win7, Linux, VxWorks

Longevity7
7 Years

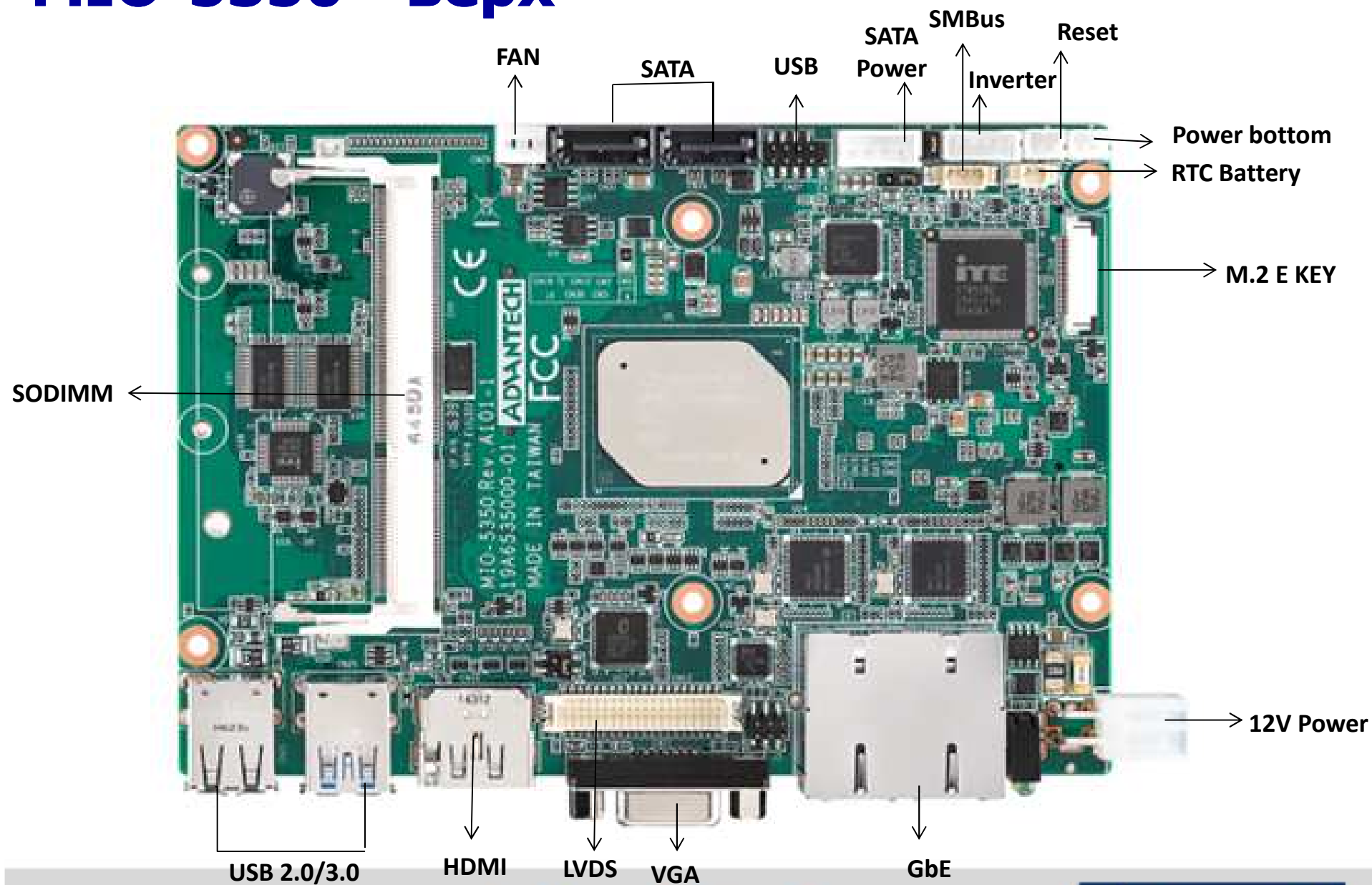
Aug. 2017
Phase In

Q3.2023
Longevity

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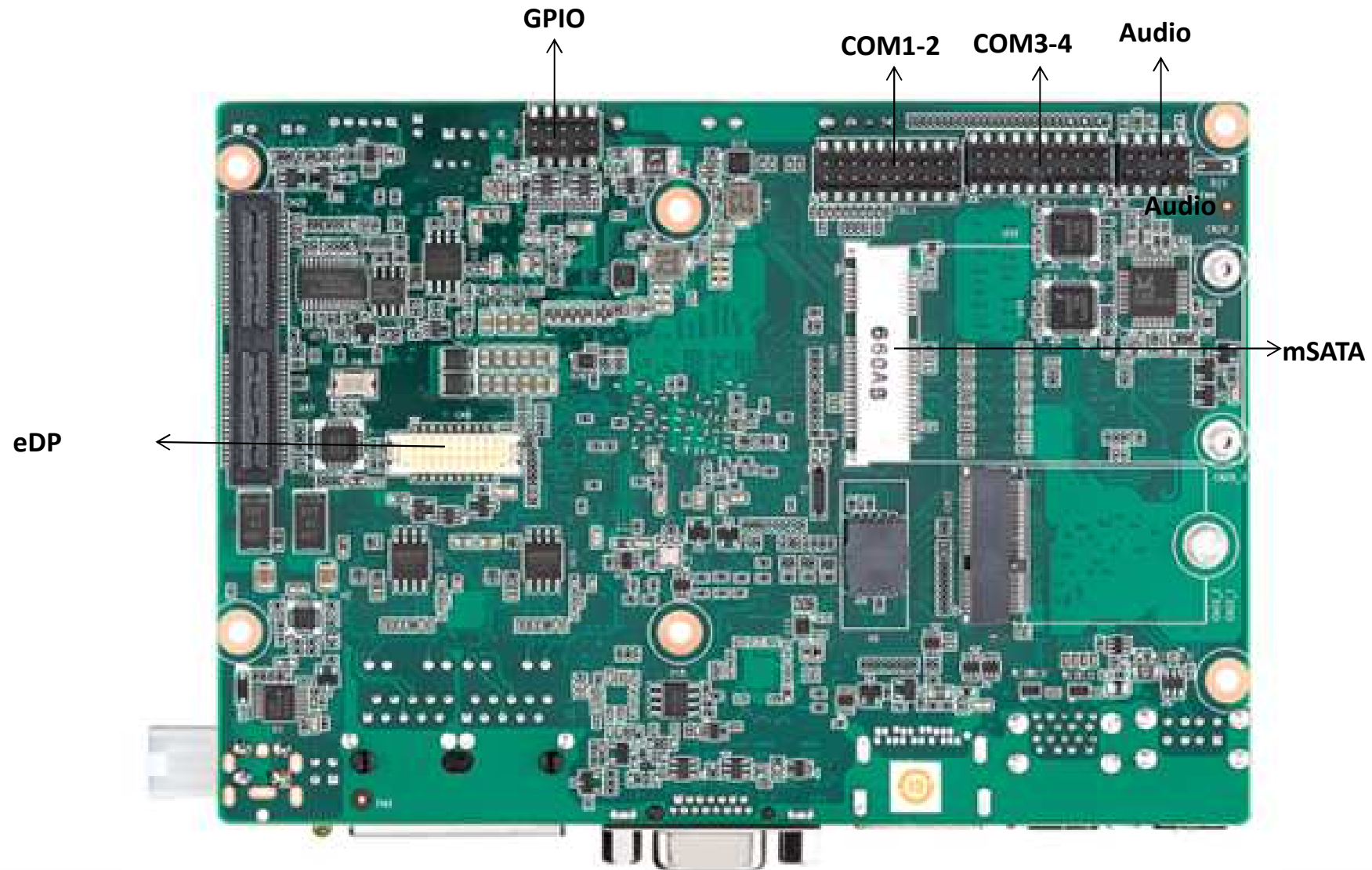
MIO-5350 - верх



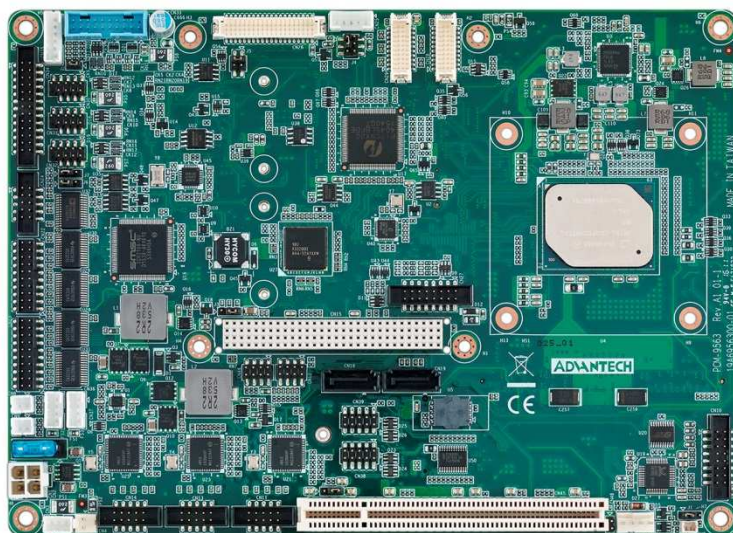
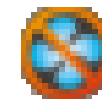
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MIO-5350 - низ



PCM-9563



Q3. 2017

Phase In

Q3.2023

Longevity

Intel ATOM (Apollo Lake) Quad/Dual core, up to 12W
1866MHz DDR3L SODIMM x 1 slot single channel up to 16G

3 independent display: VGA, LVDS/eDP, and HDMI/DP
Gen-9 Low Power; 4K Codec Decode & Encode

Low Power Consumption (8W~12W approx.)
Extended Temperature Option (-40~85C)

3 Intel GbE/ HD Audio/ 2 USB3.0/ 6 USB2.0/ 2 SATA III/
16 bit GPIO/SMBUS/

HD Audio/ 6 COM, 2 Smart Fan support
PCI-104, PCI slot, mSATA/1x Mini-PCIe/ 1x M.2 E Key

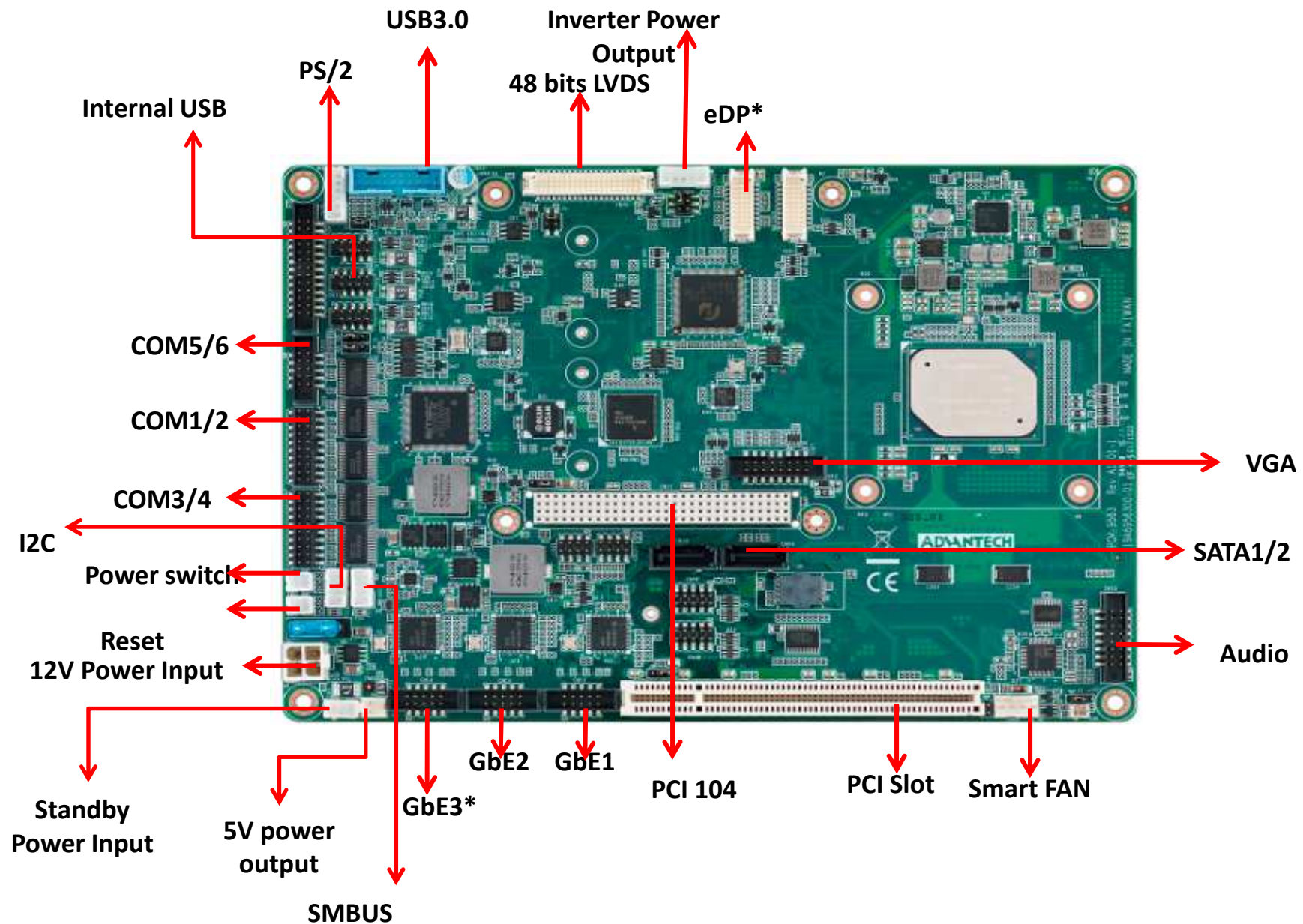
Advantech iManager & SUSIaccess
Supports Embedded Software API and Utility
Win7, WES7, Win8.1, Win10, Linux, QNX Support

2023/Q3
Longevity

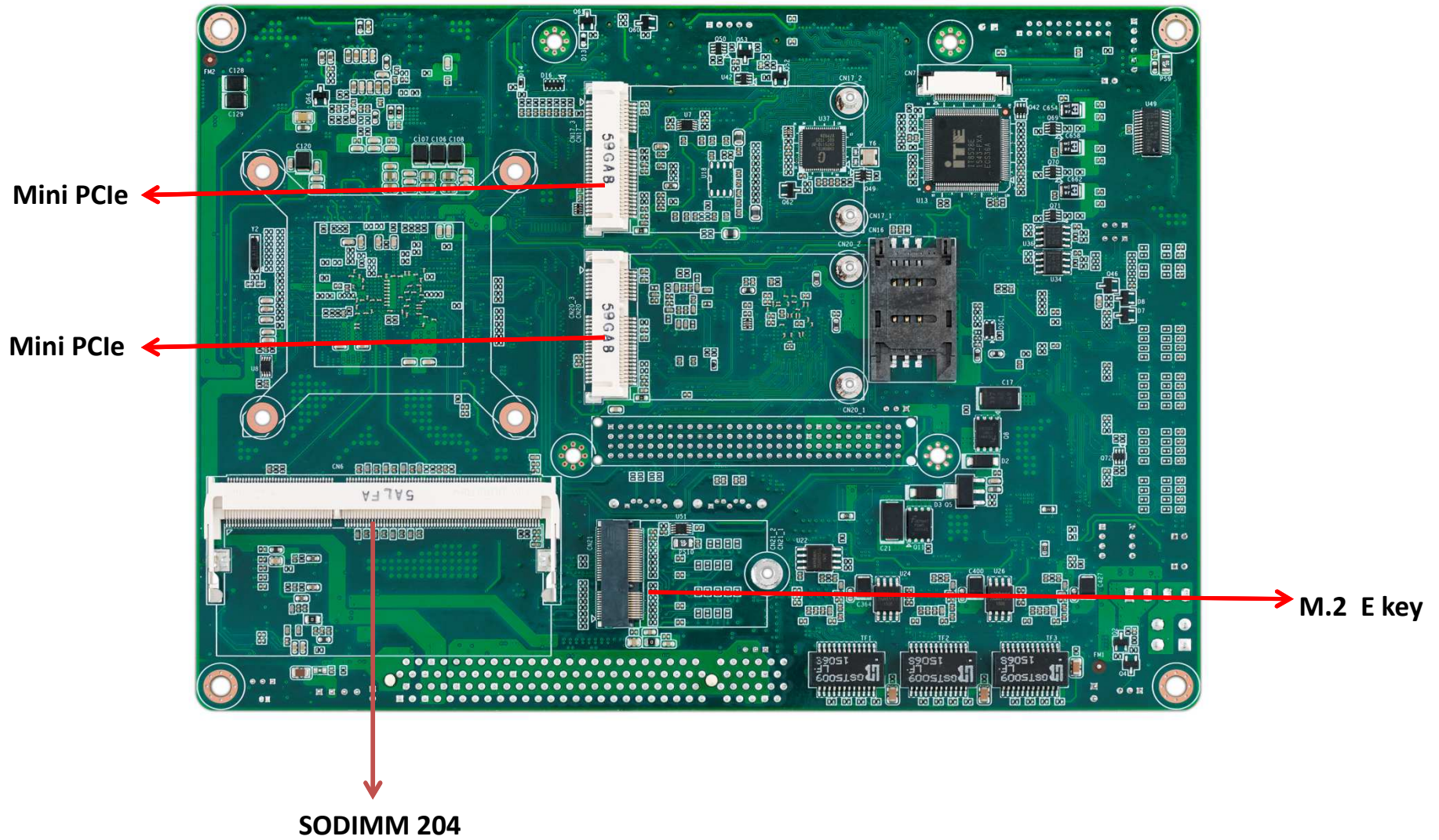
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PCM-9563 - верх



РСМ-9563 - низ



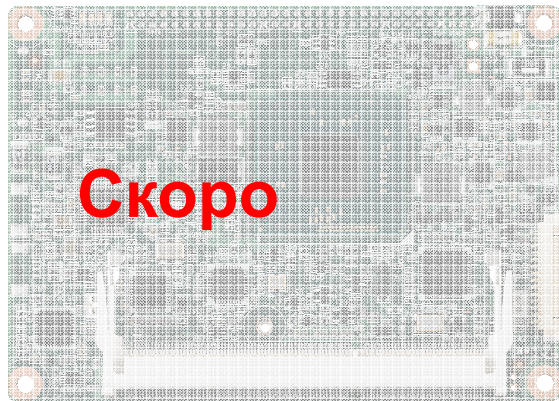
Сравнение спецификаций для замены

Model Name	PCM-9562	PCM-9563
CPU	Intel Atom 22nm, DC E3825(1.33GHz), QC E3825(1.91GHz), J1900(2.0/2.4GHz)	Intel Atom 14nm , QC up to 2.6GHz
Graphics	Gen7, H264, MPEG2, VC1, VP8	Gen9, 4K Codec Decode& Encode for HEVC4, H.264, VP8, SVC, MVC
Memory	1 x SO-DIMM DDR3L 1333/1600 MHz, up to 8GB	1 x SO-DIMM DDR3L 1867 MHz, up to 8GB
Display	2 Independent Displays VGA, LVDS or eDP*, HDMI or DP*	3 Independent Displays VGA, LVDS or eDP*, (HDMI or DP)*
Security	N/A	N/A
Rear I/O	N/A	N/A
Internal I/O	4 x RS-232, 2 x RS-422/485 I2C/SMBus 3 GbE, 3 SATA, 8 USB 2.0, 2 Watchdog, 16-bit GPIO PC/104 plus slot x 1 1 x full size Mini PCIe 1 x PCI slot Speaker out, CD-input, Line-in, Line-out, Mic-in	2 x RS-422/485, 4 x RS-232, LVDS/eDP* I2C/SMBus 3 x LAN, 1 x SATAIII, 2 x USB3.0, 4 x USB2.0 , 16- bit GPIO, 1 x M.2 E key, 1 x full size mSATA, 1 x full size mini PCIe slot HD Audio line-in, line-out, mic-in, PCI slot, PCI 104

* Support by request

MIO-3360

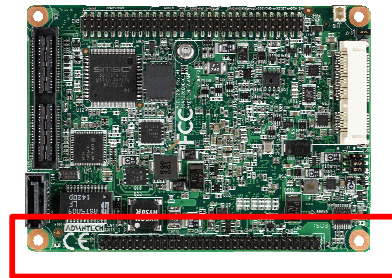
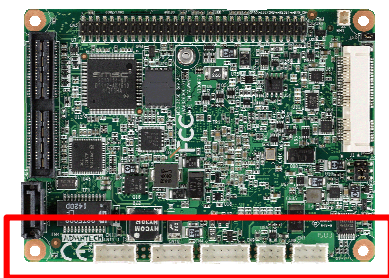
Intel Apollo Lake Pico-ITX SBC with 48-bit LVDS/ VGA/ LAN/ Full-size Mini-PCIe/
2 COM/ 1 mSATA/ 2 USB3.0/ 6 USB2.0/ MIOe3.0



Скоро

(1) Гибкое решение

(2) Надежное соединение



2017/Q4
Phase In

2024/Q2
Longevity

Intel **Apollo Lake** Quad Core/Dual Core SoC
Single channel **DDR3L 1866** (SO-DIMM)
Memory size support up to **8GB**

Low Power Consumption
(Kit TDP: DC:**6W**, QC: **12W**)
Fanless and -40~85 wide temperature

Great graphic performance
Gen-9 Low Power; 18 Execution Units5
4K Codec Decode& Encode forHEVC4, H.264, VP8, SVC, MVC

High Flexibility Design & MIOe Extension
MIOe Extension and 64P expansion connectors
2 COM/ 2 **USB3.0**/ 6 USB2.0/ 1 mSATA/ SMBus/ I2C
MIOe3.0 Extension / Mini-PCIe (Half-size)
NEW: 48-bit LVDS & eMMC
Dual display support by **VGA+LVDS+MIOe**

Supports Embedded Software API and Utility
Win7(32/64bit), Win8, Liunx, VxWorks Support

2024/Q2 Longevity

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MIO-3360L - низ

□ Общий разъем

64Pin Connector B

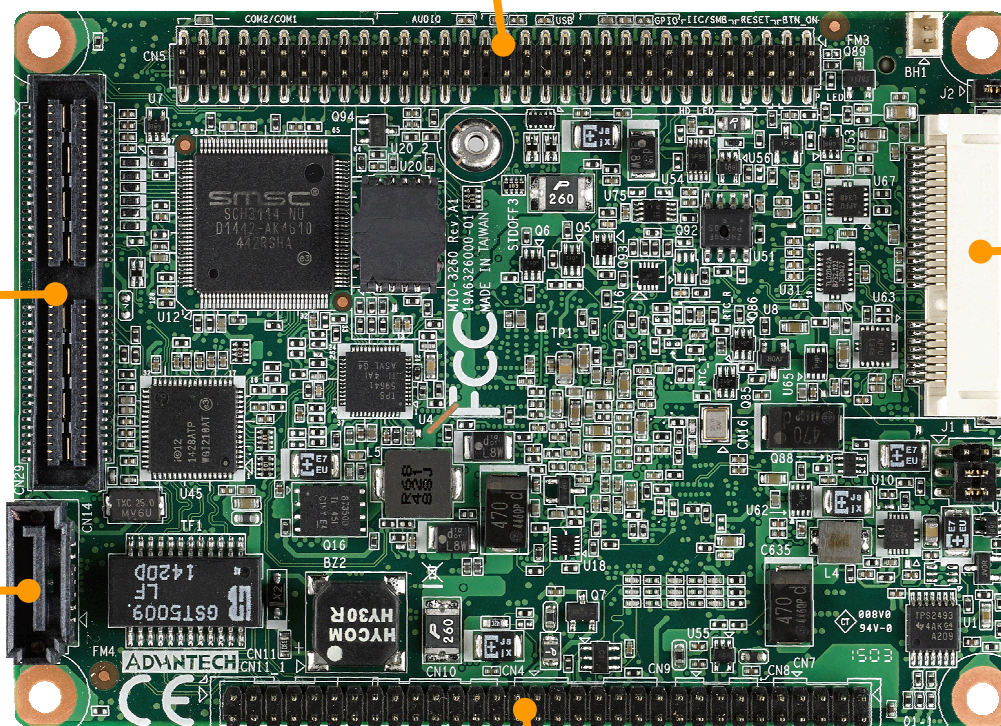
HDD LED, Power LED, Power button, SMBus, I2C, 2xUSB2.0,
8-bit GPIO, HD Audio Line in/out/mic in, 2 x RS-232/422/485

MIOe

DP/HDMI,
USB3.0/2.0, 2 x PCIe1,
SMBus,
LPC, 12V/5V power,
HD Audio Line out.
Power on, Reset

SATA

Full size Mini
PCIe or mSATA



64Pin Connector A

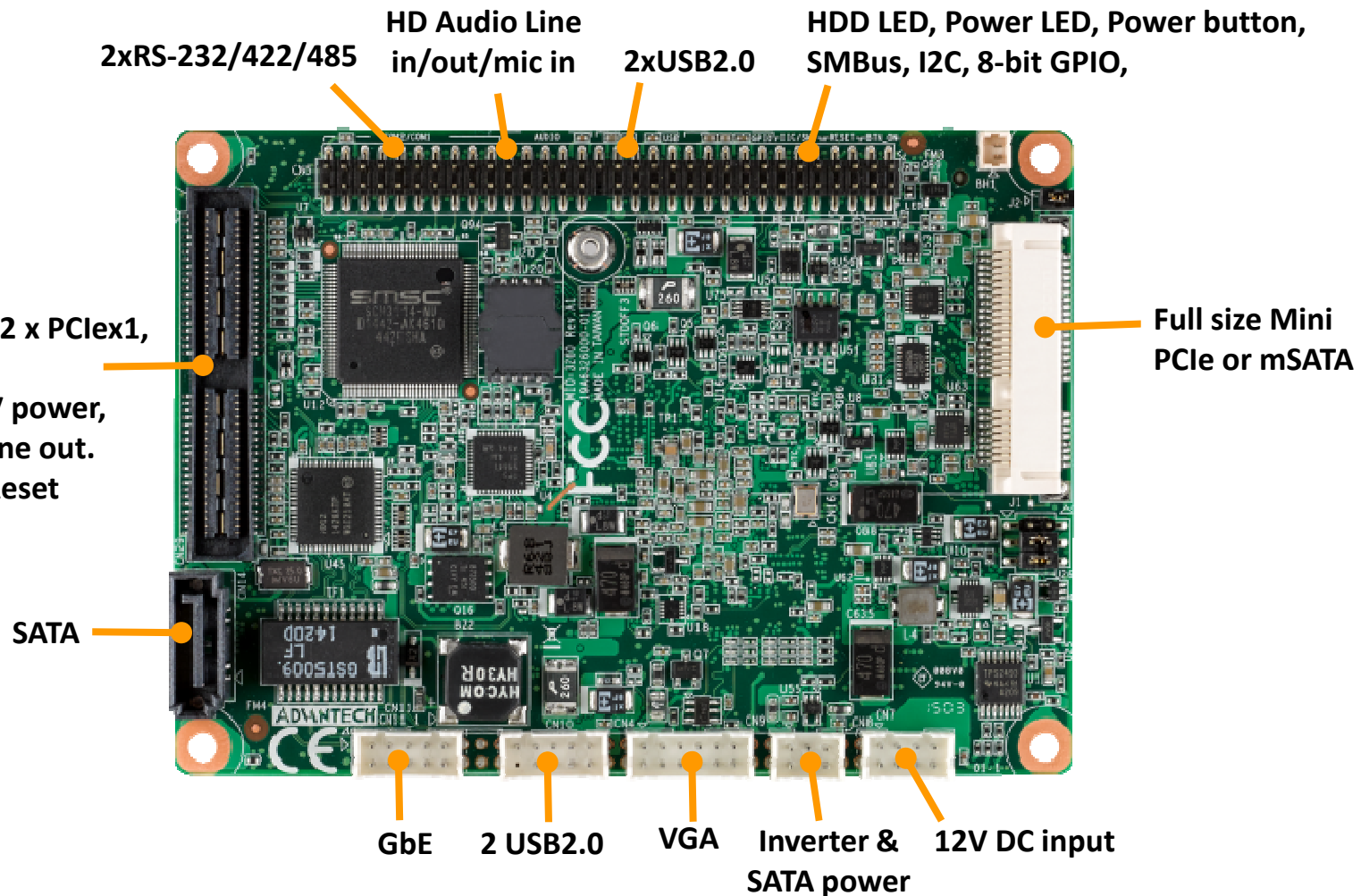
12V DC in, inverter, VGA, 2 USB2.0, GbE w/ LED

MIO-3360C - низ

□ Несколько разъемов

MIOe

DP/HDMI,
USB3.0/2.0, 2 x PCIe1,
SMBus,
LPC, 12V/5V power,
HD Audio Line out.
Power on, Reset



MIO-5272

6th Generation Intel® Core™ /Celeron MI/O-Compact SBC with **Dual -SODIMM**
48-bit LVDS/ VGA/ HDMI Dual Dual LAN/Dual Mini-PCle/ 4 COM/ 2 SATA/
1 mSATA/ 2 USB3.0/ 4 USB2.0/ **TPM2.0**/ MIOe



2*USB 3.0

2 x 2 ATX or DC Jack

•2016/Q1
•Phase In

•2022/Q1
•Longevity

Intel Skylake ULT DC, 15W, Core i7/i5/i3/Celeron CPU
2 SO-DIMM DDR3L 1600MHz **up to 16GB**
Fanless Design, Wide temp with Compact size

3 independent display: 48-bit LVDS/eDP, HDMI, VGA
DX11.1, OCL1.3; Graphics optimized for low power
GT2 Graphics Core, 4k HW Accelerated Decode

Intel vPro/iAMT 11.0

12V DC Power input , support DC power hot plug design
Turbo Boost 2.0, Hyper-Threading

2 Intel GbE/ HD Audio/ 2 USB3.0/ 4 USB2.0
2 SATAIII/ 2 COM/ GPIO/ SMBUS
TPM 2.0/ mSATA/ **Dual Mini-PCle w/SIM**
MIOe (SMBus, 1 USB 3.0, LPC, 1 PCIe, line out, power, DP)

Advantech SUSI4.0 & SUSIAccess

Supports Embedded Software API and Utility
Win10, Win7, WES7, Win8, WE8S, Linux, VxWorks Support

Enabling an Intelligent Planet

ADVANTECH

PCM-9310

- Intel Braswell 3.5" SBC with VGA, HDMI, 48-bit LVDS/ LAN/ 2 Full-size Mini-PCIe
- 4 COM/ 1 mSATA/ 2 USB3.0/ 4 USB2.0



•Fanless



- 2 x USB 3.0
- 2 x USB2.0

• ATX or DC Jack*

• 2016/Q2
• Phase In

• 2022/Q2
• Longevity

• *Supported by request

- Intel Braswell SoC (QC/DC: 6W)
- Intel Celeron N3160(Quad-core)/N3060(Dual-core)
Single channel DDR3L 1600 SO-DIMM
- Memory size support up to 8GB

3 Independent Display

- support by VGA/HDMI/LVDS (eDP optional)
 - eDP can configure to DP/HDMI via cable

Great Graphic Performance

- DirectX® 11.1, Intel Gen8 LP, OpenGL4.2, OCL1.2

Rich I/O ports Expansion

LVDS, VGA, 2 Full-size Mini PCIe/mSATA (W/ SIM)
HD Audio, 12V DC in , 5/12Vsb power, 2 USB3.0
4 USB2.0, 4 RS232, 2 RS232/422/485,
TPM2.0, SMBus, I2C

Support SUSI Access

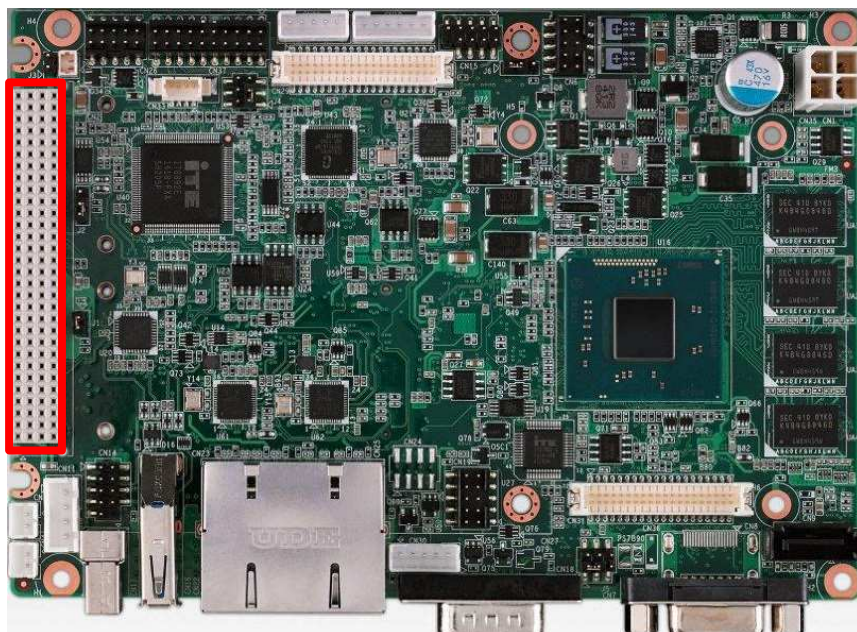
Supports Embedded Software API and Utility
Win8.1, Win7, WES7, Linux, VxWorks Support

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ADVANTECH

PCM-9365

Intel® Atom™ E3825 & Celeron® N2930, 3.5" SBC, On-board Memory, VGA, 18/24-bit LVDS, 2GbE, Mini PCIe, PCI-104, iManager



Q1,2015 phase in

Intel® Atom™ E3825 & Celeron® N2930
Single channel **DDR3L 1333/1066 MHz**
On board Memory size support to **4 GB/2 GB**

Low Power Consumption (Kit TDP: **DC:6W, QC: 7.5W**)
Fanless and -40~85 wide temperature

4~7x graphic performance enhanced
DirectX® 11.1 graphics support
H.264 (Encode/Decode) / MPEG-4 AVC / VC-1 / WMV /
MPEG-2

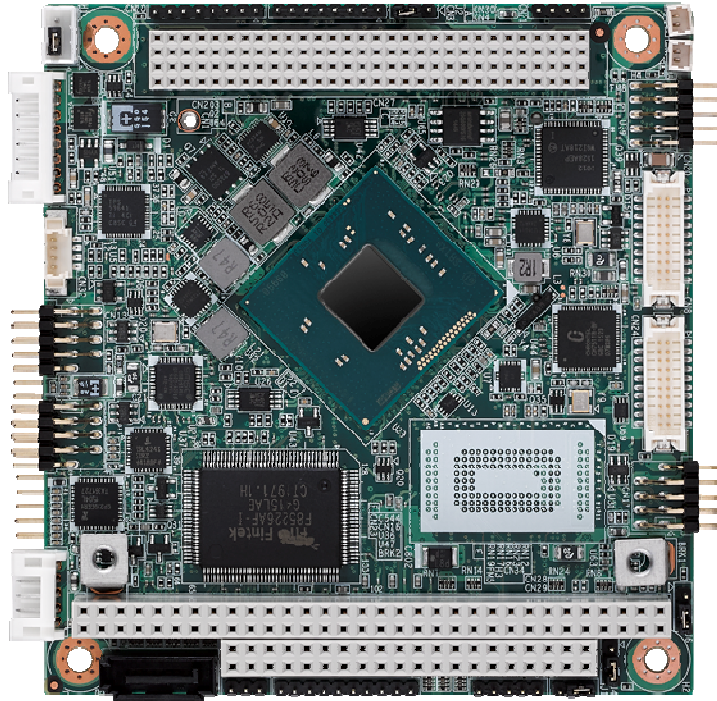
Rich IO: VGA or **HDMI/24-bit LVDS**/ 1 GbE/ HD Audio
4 COM/ 3 USB2.0/ **1 USB3.0** / 1 mSATA/ 8-bit GPIO/ SMBus/ I2C/
PCI-104 Extension / Full-size Mini PCIe
Dual display support by **VGA+LVDS** / **HDMI+LVDS** / **LVDS+LVDS**

Support iManager
Supports Embedded Software API and Utility
WEC7.0, Win7(32/64bit), WES7, **Win8, Linux** Support

2021/Q4 Longevity

PCM-3365

Intel Bay Trail **PC/104+** SBC with 24-bit LVDS/ VGA /HDMI or DVI/ 6 USB2.0/ LAN/Half size Mini-PCle/Half size mSATA or On-board flash/3 COM/ PC/104 and PCI-104 expansion



Intel Bay Trail SoC (E3845QC: 10W,E3825 DC:6W, N2930 QC: 7.5W)
Single channel DDR3L 1333/1066 MHz

Low Power Consumption (Kit TDP: DC:6W, QC: 7.5W)
Fanless and -40~85 wide temperature

4~7x graphic performance enhanced
DirectX® 11.1 graphics support
H.264 (Encode/Decode) / MPEG-4 AVC / VC-1 / WMV /
MPEG-2

Rich IO: VGA /HDMI or DVI/24-bit LVDS/ 1 GbE/
3 COM/ 6 USB2.0/ 1 mSATA/ 8-bit GPIO/ SMBus/
I2C/ PC/104, PCI-104 Extension /
Half-size Mini PCIe/ mSATA or On-board flash

Supports Embedded Software API and Utility
WEC7.0, Win7(32/64bit),WES7,Linux Support

Q2. 20163

Phase In

2021/Q4

Longevity

Enabling an Intelligent Planet

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EPC-S101

Встраиваемая платформа Intel Braswell Celeron, 24-bit LVDS//HDMI/VGA
2 GbE/ 4 COM/ 2 SATAIII/ 2USB3.0/ 4 USB2.0/ 2 Mini-PCle with mSATA/ 1 SATA/ / iManager



0~50°C

Рабочая темп.



Intel Braswell Mobile BGA

Celeron QC N3160 2.24GHz

DC N3060 2.48GHz

Расширение

DDR3 x 1 до 8GB

24-bit LVDS/ 2 x GbE LAN/ HD Audio

2 USB3.0/ 4 USB2.0/ 4 COM/ 8-bit GPIO/ 1 SATA/

2 Full size Mini PCIe w/mSATA/

3 независимых дисплея: VGA , HDMI, LVDS

Direct 11, OpenGL *4.2, OpenCL* 1.2

Аппаратное декодирование: AVC/H.265, VC-1 and MPEG -2

2017/Q3 Phase In

Рабочая температура 0~50c

Питание 12 В DC, горячее подклбчение

Поддержка iManager и SUSIAccess

Embedded Software API and Utility

Win7, WES7, Win8, WE8S, WinXP, XPE, Linux

2021/Q4 Longevity

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ADVANTECH

EPS-S101

Конкурентная цена

- ✓ Тонкая конструкция < 1U
- ✓ Для применения в помещениях 0 °~50 °C

Простая сборка/доступ к периферии

- ✓ 2-х сторонняя крышка
- ✓ Пассивное охлаждение

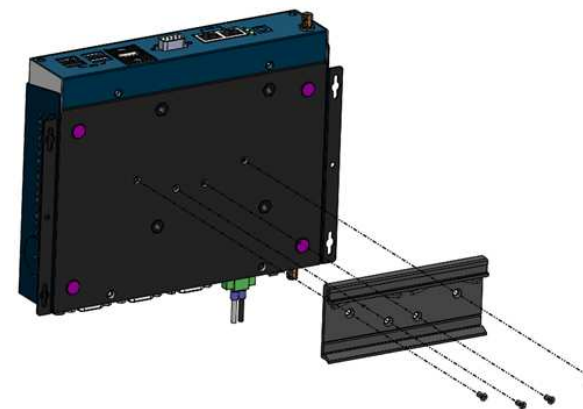
3 варианта монтажа



VESA



На стену



DIN Rail
(опционально)

EPС-C300

Встраиваемый корпус для плат формата 3.5" MIO-5250 , MIO-5251 , MIO-5271 **0~40°C**

Model: ACK-A004E-01A1E/ACK-A004E-02A1E/ACK-A004E-03A1E

Рабочая темп.



Простой и экономичный корпус для
Fit MIO-5250 , MIO-5251, MIO-5271 3.5" MIO-Compact

Пассивное охлаждение;
Съемные монтажные кронштейны

Задняя крышка для легкого доступа к -
ОЗУ, mPCIe, mSATA,, 2.5" HDD

Спереди: 4 x USB, 1 x HDMI , 2 x RJ45, 1 x VGA,
Сзади: вырезы для 4 x COM , 2 x USB, audio, and 1 x RJ45

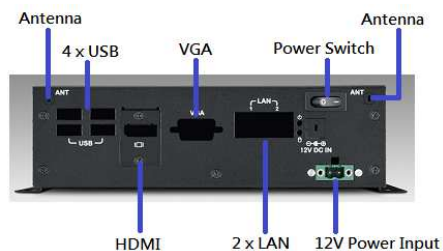
Место для вентилятора для MIO-5271

Клемный разъем питания DC 12В

Вид сзади



Вид спереди



ERC-S300

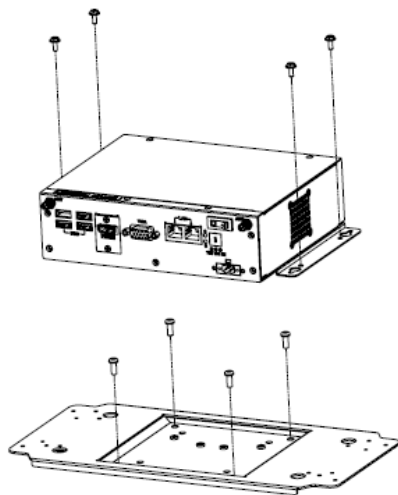
- **3 артикула**

- ✓ Специально для MIO-5250/5251/5271
- ✓ Для применения в помещении 0 °~40 °C

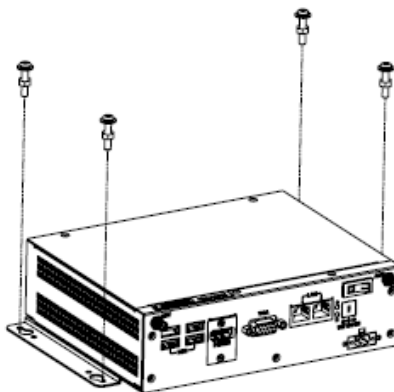
- **Простая сборка/доступ к периферии**

- ✓ 2-х сторонняя крышка
- ✓ Пассивное охлаждение

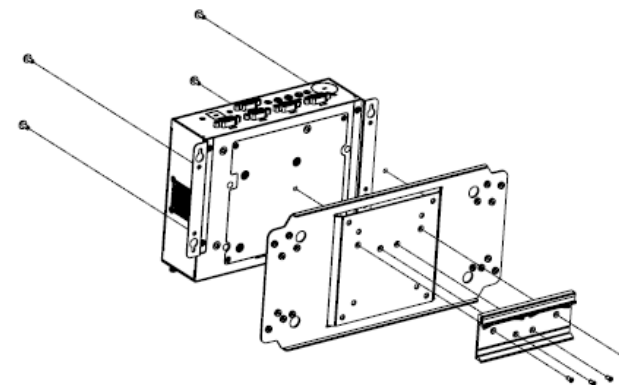
3 варианта монтажа



VESA
(по запросу)



На стену



DIN Rail
(по запросу)



Спасибо!

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