

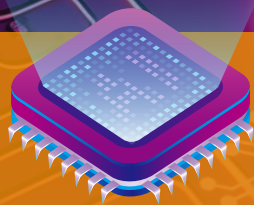
sunix®



2024 PRODUCT GUIDE

Ver.2

AI Inference Accelerator PCIe Card

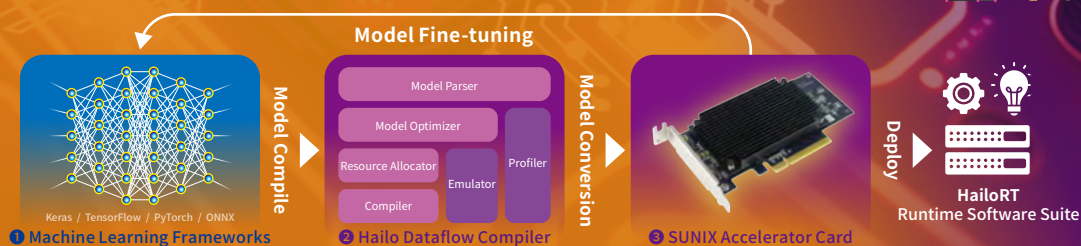


- Delivering **26-104 TOPS** (Tera Operations Per Second)
- OS Support: Linux / Windows
- AI frameworks: Tensorflow / Tensorflow Lite / Keras / Pytorch & ONNX
- Highest power-efficiency (FPS/Watt) compared with GPU solutions
- Comprehensive software suite supported and model conversion service

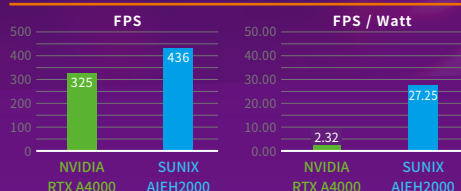


SUNIX Advantages

- ▶ Model Compiling Service
- ▶ Model Conversion Service
- ▶ Model Fine-tune
- ▶ Fast Deployment



Performance comparison (Yolov5m)



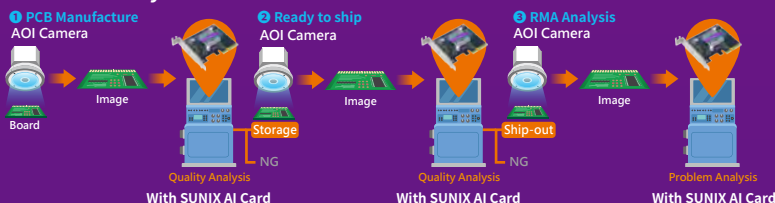
Application / Field



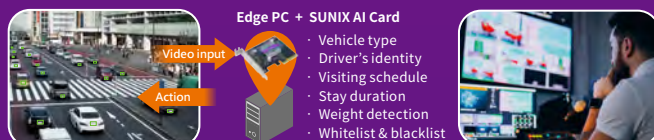
Product family



PCB AI AOI System



License Plate AI Recognition

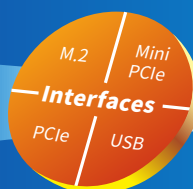


SUNIX ODM Service

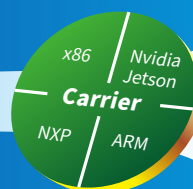
One-stop Solution Design Service
for I/O Expansions



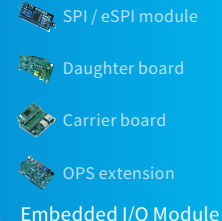
Varies Combination



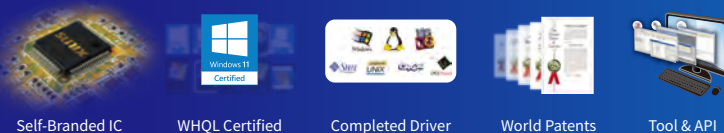
PC Expansions



I/O Carrier Board



SUNIX I/O Card Feature



SUNCAN Advantages



IoT Products

Gateway Ethernet IO Gateway



EZG1300
MQTT Gateway

DevicePort I/O Remote IO (DIO/AI)



| AI model | DIO model |
|----------------------|-----------------------------------|
| EZR5231 4-port AI | EZR5002 2-port DI 4-port DO |
| | EZR5003 3-port DI 3-port DO |
| | EZR5004 4-port DI 2-port DO |



| Serial model | AI model | DIO model | Combo model |
|-------------------------|------------------------|---------------------------------------|--|
| EZISNNN40 4-port COM | EZIAINN80 8-port AI | EZIDIDIFF 32-port DI | EZIAIDI8F 8-port AI 16-port DI |
| EZISNSN44 8-port COM | | EZIDCNN80 8-port DI 8-port DO | EZIAIDC88 8-port AI 8-port DI 8-port DO |
| | | EZIDIDOFF 16-port DI 16-port DO | |

DevicePort Remote IO (RS-232/422/485)

Industrial



DPA301HTP
1-port RS-232/422/485
(3-in-1)



DPAD02HTP
2-port RS-422/485



DPAS01D00
1-port RS-232

DPA301D00
1-port RS-232/422/485
(3-in-1)



DPAS02H00
2-port RS-232



DPAS04H00
4-port RS-232



DPAS08H00
8-port RS-232

Device Server



IDSX02DW0
RS-232

IDSD02DW0
RS-422/485

IDS302DW0
RS-232/422/485

IDS302DWS
RS-232/422/485
w/ Surge & Isolation

2-port



IDSX04DW0
RS-232

IDSD04DW0
RS-422/485

IDS304DW0
RS-232/422/485

IDS304DWS
RS-232/422/485
w/ Surge & Isolation

4-port



IDSX08DW0
RS-232

IDSD08DW0
RS-422/485

IDS308DW0
RS-232/422/485

IDS308DWS
RS-232/422/485
w/ Surge & Isolation

8-port

ECS Application Kits



KSF1001G
IoT Integrated Solution



KPE1301
Smart Meter Monitoring



KEM1103
Environmental Monitoring



KEM1401
Machine Operation Rate



KEM1501
Intelligent Virtual Fence

Add-on Cards




















WHQL Certification

SUNIX products have passed strict X86/X64 Microsoft WHQL certification, ensuring customers' full compatibility.






M.2 Card

| | | | |
|--|---|---|---|
| CAN FD NEW  CAN-M2102SI 2-port CAN FD Industrial M.2 Card w/ Surge & Isolation (Type-2280) | Digital I/O NEW  IPC-M4443I 4-Ch Digital In 4-Ch Digital Out Industrial M.2 Card w/ Isolation (Type-2280) |  IPC-M4884I 8-Ch Digital In 8-Ch Digital Out Industrial M.2 Card w/ Isolation (Type-2280) | RS-422/485  IPC-B2108 8-port RS-422/485 PCI/104 Card |
| RS-232  M2S6437A 2-port RS-232 M2S6456A 4-port RS-232 M.2 Card (Type-2242) | RS-422/485  IPC-M2202S Industrial 2-port IPC-M2204S Industrial 4-port RS-422/485 M.2 Card w/ Surge (Type-2280) | RS-232/422/485 NEW  IPC-M3202 Industrial 2-port RS-232/422/485 M.2 Card (Type-2280) | |





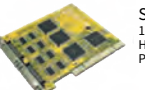
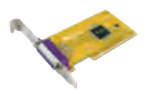








PCIe Card

| | | | | |
|---|---|---|---|--|
| RS-232 / Parallel  SER6427A 2-port RS-232 PCIe Card |  SER6437A 2-port RS-232 PCIe Card |  SER6456A 4-port RS-232 PCIe Card |  SER5466A 8-port RS-232 PCIe Card |  SER5416H 16-port RS-232 PCIe Card |
|  PAR6408A 1-port IEEE1284 Parallel PCIe Card |  PAR5418A 2-port IEEE1284 Parallel PCIe Card |  MIO6469A 1-port RS-232 & 1-port Parallel PCIe Multi-I/O Card |  MIO6479A 2-port RS-232 & 1-port Parallel PCIe Multi-I/O Card |  MIO5499A 4-port RS-232 & 1-port Parallel PCIe Multi-I/O Card |
| RS-422/485  IPC-E2202SI Industrial 2-port RS-422/485 PCIe Card w/ Surge & Isolation |  IPC-E2204SI Industrial 4-port RS-422/485 PCIe Card w/ Surge & Isolation |  IPC-E2108SI Industrial 8-port RS-422/485 PCIe Card w/ Surge & Isolation | RS-232/422/485 NEW  IPC-E3202S Industrial 2-port RS-232/422/485 PCIe Card w/ Surge |  IPC-E3204S Industrial 4-port IPC-E3308S Industrial 8-port RS-232/422/485 PCIe Card w/ Surge |
| CAN FD NEW  CAN-E2102SI 2-port CAN FD Industrial PCIe Card w/ Surge & Isolation |  CAN-E2104SI 4-port CAN FD Industrial PCIe Card w/ Surge & Isolation | Digital I/O  SDC0880I 8-Ch Digital In 8-Ch Digital Out SDC0FF0I 16-Ch Digital In 16-Ch Digital Out Industrial PCIe Card w/ Isolation | Serial + Digital I/O  SDC4880B 2-port internal RS-232/422/485 2-port external RS-232/422/485 8-Ch Digital In 8-Ch Digital Out Industrial PCIe Card w/ Surge & Isolation | |

MiniPCIe Card

| | | | | |
|--|--|---|--|---|
| CAN FD NEW  CAN-C2102SI 2-port CAN FD Industrial MiniPCIe Card w/ Surge & Isolation | Digital I/O  IPC-C4443I 4-Ch Digital In 4-Ch Digital Out IPC-C4884I 8-Ch Digital In 8-Ch Digital Out Industrial MiniPCIe Card w/ Isolation | RS-422/485  IPC-C2202S 2-port RS-422/485 IPC-C2204S 4-port RS-422/485 Industrial MiniPCIe Card | RS-232  MCS6437A 2-port RS-232 MCS6456A 4-port RS-232 MiniPCIe Card |  MCS6456P 4-port RS-232 MiniPCIe Card w/ Power Output |
|--|--|---|--|---|

PCI Card

| | | | | |
|--|--|--|--|--|
| RS-232 / Parallel  SER5027A 1-port RS-232 PCI Card |  SER5037A 2-port RS-232 PCI Card |  SER5056A 4-port RS-232 PCI Card |  SER5066A 8-port RS-232 PCI Card |  SER5016H 16-port RS-232 High Speed PCI Card |
|  PAR5008A 1-port Parallel PCI Card |  PAR5018A 2-port Parallel PCI Card |  MIO5079A 2-port RS-232 & 1-port Parallel PCI Multi-I/O Card |  MIO5099A 4-port RS-232 & 1-port Parallel PCI Multi-I/O Card | |
| RS-422/485  IPC-P2102SI Industrial 2-port RS-422/485 PCI Card w/ Surge & Isolation |  IPC-P2104SI Industrial 4-port RS-422/485 PCI Card w/ Surge & Isolation |  IPC-P2108SI Industrial 8-port RS-422/485 PCI Card w/ Surge & Isolation |  IPC-P2116 Industrial 16-port RS-422/485 PCI Card w/ Surge & Isolation | RS-232/422/485  IPC-P3104 Industrial 4-port IPC-P3108 Industrial 8-port RS-232/422/485 PCI Card |

Extension Accessories



USB Series

USB4 **NEW**



UPB2430
USB4 40 Gbit/s
PCIe Host Card
w/ Type-C Receptacle
Support DP1.4a

USB 3.2 Gen1



USB2302
USB 3.2 Gen1 2-port
PCIe Host Card
(USBIF TID 350000174)



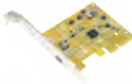
USB4300NS
USB 3.2 Gen1 4-port
PCIe Host Card
(USBIF TID 350000211)

USB 3.2 Gen2(Alt-Mode)



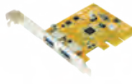
UPA2015 **NEW**
USB 3.2 Gen2 10G & DisplayPort 1.4/1.2
PCIe Host Card w/ Dual Type-C Receptacle
(Alt-Mode)

USB 3.2 Gen2x2

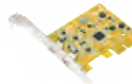


USB2321C
USB 3.2 Gen2x2 20G
PCIe Host Card
w/ Type-C Receptacle

USB 3.2 Gen2



USB2312A
USB 3.2 Gen2 2-port
PCIe Host Card
w/ Type-A Receptacle



USB2312C
USB 3.2 Gen2 2-port
PCIe Host Card
w/ Type-C Receptacle

Powered USB



PUB1200X
1-port 24V & 2-port 12V
Powered USB
PCIe Host Card



PUB0300XL
3-port 12V Powered USB
PCIe Host Card

USB Type-C Adapter



C2VC7C0
USB Type-C
to VGA Adapter



A2CZ0T0
USB 3.1 Gen2 10G
USB Type-A to Type-C
Active Dongle



C2HF3C1 **NEW**
USB-C to **HDMI 2.1** (8K@60Hz / 4K@144Hz) Active Adapter
W/ Detachable USB-C PD Cable

C2HF3C1P **NEW**
USB-C to **HDMI 2.1** (8K@60Hz / 4K@144Hz) Active Adapter
W/ Detachable USB-C PD Cable
W/ PD Powered 60W USB-C Charging Port

Video Converter



D2H13MD
DisplayPort
to **HDMI 2.0** 4K@60Hz
Active Dongle



D2H13N0
DisplayPort
to HDMI Dongle



D2V17C0
DisplayPort
to VGA Dongle



H2V37C0
HDMI
to VGA Dongle



I2V67C0 **NEW**
DVI-D
to VGA Adapter



H2V97C0
HDMI
to VGA Adapter



H2V57C0
Micro HDMI
to VGA Adapter

2.5G Network PoE Series



LAN1225PS
1-port 2.5G BASE-T
Network PoE
PCIe Card
Power Input options:
PCIe Bus power - 12V
SATA power - 12V



LAN2225P
2-port 2.5G BASE-T
Network PoE
PCIe Card
Power Input options:
PCIe Bus power - 12V
6 pin GPU power - 12V
External power - 12V-24V

OCuLink Series

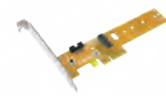


OCUM4221 **NEW**
M.2 2280 M key PCIe Gen4x4
to OcuLink 4i SFF-8612
Adapter

+

OCUE4241 **NEW**
OcuLink 4i SFF-8612
to PCIe Gen4x16 slot(4 lanes)
Extension Board

PCIe to M.2



P2M04M01
PCIe Gen3x4
to M.2 (Key-B+M)
PCIe Card
(Support PCIe #CLK_REQ)
M.2 Module Format:
2280 / 2260 / 2242 / 2230



P2M16M40 **NEW**
PCIe Gen4
to M.2 Key-M x4
PCIe Card
M.2 Module Format:
2280 / 2260 / 2242

USB to I/O Adapter

RS-232



UTS1009GC
USB to 1-port
UTS1009DF
USB to 1-port w/FTDI IC



UTS2009GC
USB to 2-port
RS-232 Adapter



UTS4009PF
USB to 4-port
RS-232 Serial HUB

RS-422/485 **NEW**



UTS1109B
USB to 1-port
RS-422/485 Adapter



UTS4109P
USB to 4-port
RS-422/485 ComHUB

Powered COM **NEW**



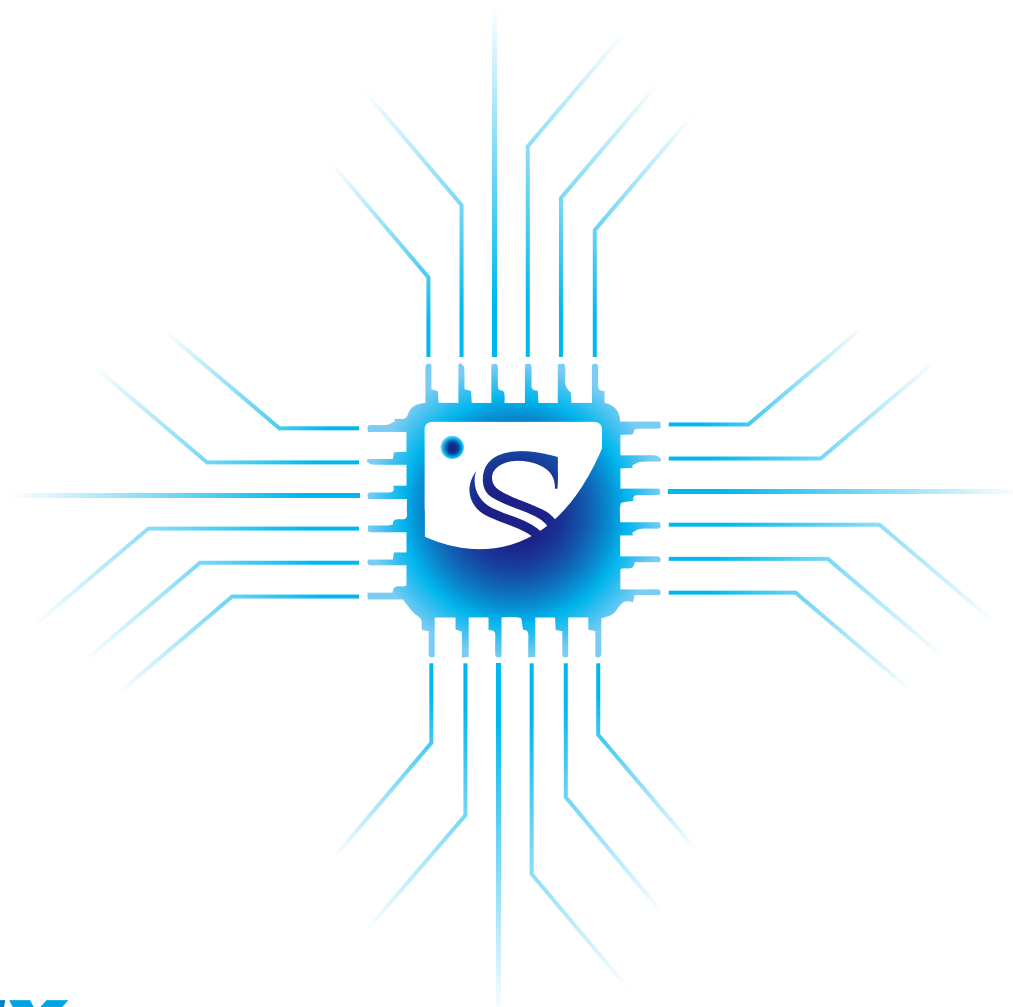
UTS4009C
USB-C to 4-port
Powered RS-232
Serial Hub

Printer Port



UTP1025B
USB to Printer
Adapter

UTM1925C
USB to RS-232 + Printer
Adapter



SUNIX

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SUNIX was established in 1986. In 1995, we released the world's first RS-232 single-chip communication card; ever since, we have become the go to serial cards specialist, and number one world sales leader for serial cards. SUNIX's headquarter and R&D Center is located in Taiwan, and our factory in Kunshan, China. SUNIX is one of very few vertical integration suppliers with original chip design, software/hardware/firmware designs and supports, high quality products manufacturing, as well as global sales capabilities. For more than 30 years, SUNIX has specialized in the field of "Commercial communication". In this past year, we announced a revolutionary design for the IoT era, EAZInet, a true "Plug and Play" networking technology, which is able to provide the best intelligent transmission solutions for IoT applications. At SUNIX, we are striving for environmental protection and active participation in public welfare. Like our slogan "***Plug Into A Brand-new World.***"

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