sunix®

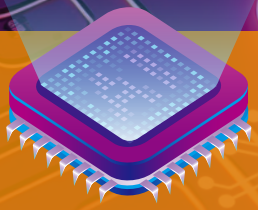


2024 PRODUCT GUIDE

Ver.1

AI Inference Accelerator PCIe Card

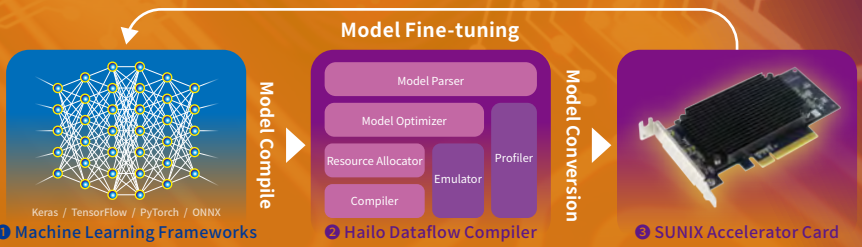




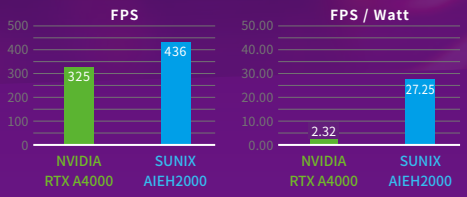
- **Delivering 26-104 TOPS** (Tera Operations Per Second)
- OS Support: Linux / Windows
- AI framworks: Tensorflow / Tensorflow Lite / Keras / Pytorch & ONNX
- Highest power-efficiency (FPS/Watt) compared with GPU solutions
- Comprehensive software suite supported and model conversion service

SUNIX Advantages

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



Performance comparison (Yolov5m)



Application / Field



Product family

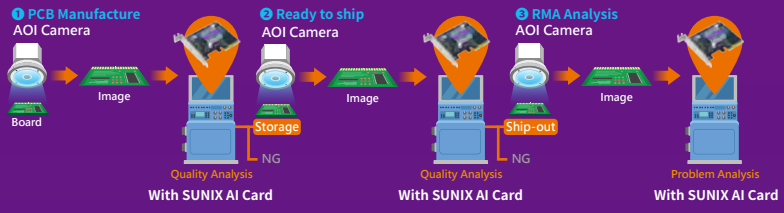


AIEH1000
PCI Express 3.0 x4
Computility 26 TOPS

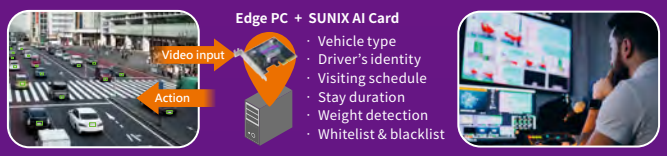
AIEH2000
PCI Express 3.0 x8
52 TOPS

AIEH4000
PCI Express 3.0 x16
104 TOPS

PCB AI AOI System

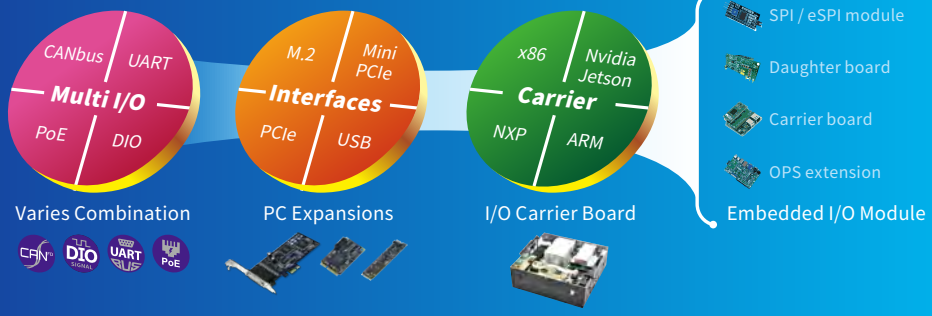


License Plate AI Recognition



SUNIX ODM Service

One-stop Solution Design Service for I/O Expansions



SUNIX I/O Card Feature



Self-Branded IC | WHQL Certified | Completed Driver | World Patents | Tool & API

SUNCAN Advantages



SUNCAN Controller
· Higher performance
· Less unnecessary process

Optimized Software
· Driver / API
· SDK / SocketCAN

Wide Support
· Windows / Linux
· Python / Node-RED

Cross-platform
· x86
· NXP i.MX6 & i.MX8
· Rockchip
· NVIDIA Jetson

CAN FD Protocol
· Flexible date rate
· Up to 8 Mbit/s

IoT Products

Gateway Ethernet IO Gateway



EZG1200
Microsoft Azure 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

Industrial



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



2-port

IDSX02DW0
RS-232

IDSD02DW0
RS-422/485

IDS302DW0
RS-232/422/485

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



4-port

IDSX04DW0
RS-232

IDSD04DW0
RS-422/485

IDS304DW0
RS-232/422/485

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



8-port

IDSX08DW0
RS-232

IDSD08DW0
RS-422/485

IDS308DW0
RS-232/422/485

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

ECS Application Kits

Microsoft Azure Certified



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



CANM2102SI
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-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)

PCI/104 Card

RS-422/485



IPC-B2108
8-port RS-422/485 PCI/104 Card

PCIe Card

RS-232 / Parallel



SER6427A
1-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



CANE2102SI
2-port CAN FD Industrial PCIe Card w/ Surge & Isolation



CANE2104SI
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



CANC2102SI
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



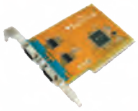
MCS6456P
4-port RS-232 MiniPCIe Card w/ Power Output

PCI Card

RS-232 / Parallel



SER5027A
1-port RS-232 PCI Card



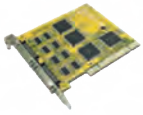
SER5037A
2-port RS-232 PCI Card



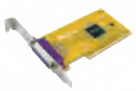
SER5056A
4-port RS-232 PCI Card



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

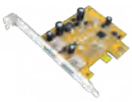
USB Series

USB4 NEW



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

USB 3.2 Gen1

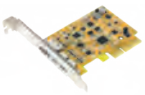


USB2302
USB 3.2 Gen1 2-port
PCIe Host Card
(USBIF TID 350000174)



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

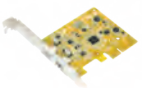


USB2321C
USB 3.2 Gen2x2 20G
PCIe Host Card
w/ Type-C Receptacle

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 Powered USB
& 2-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



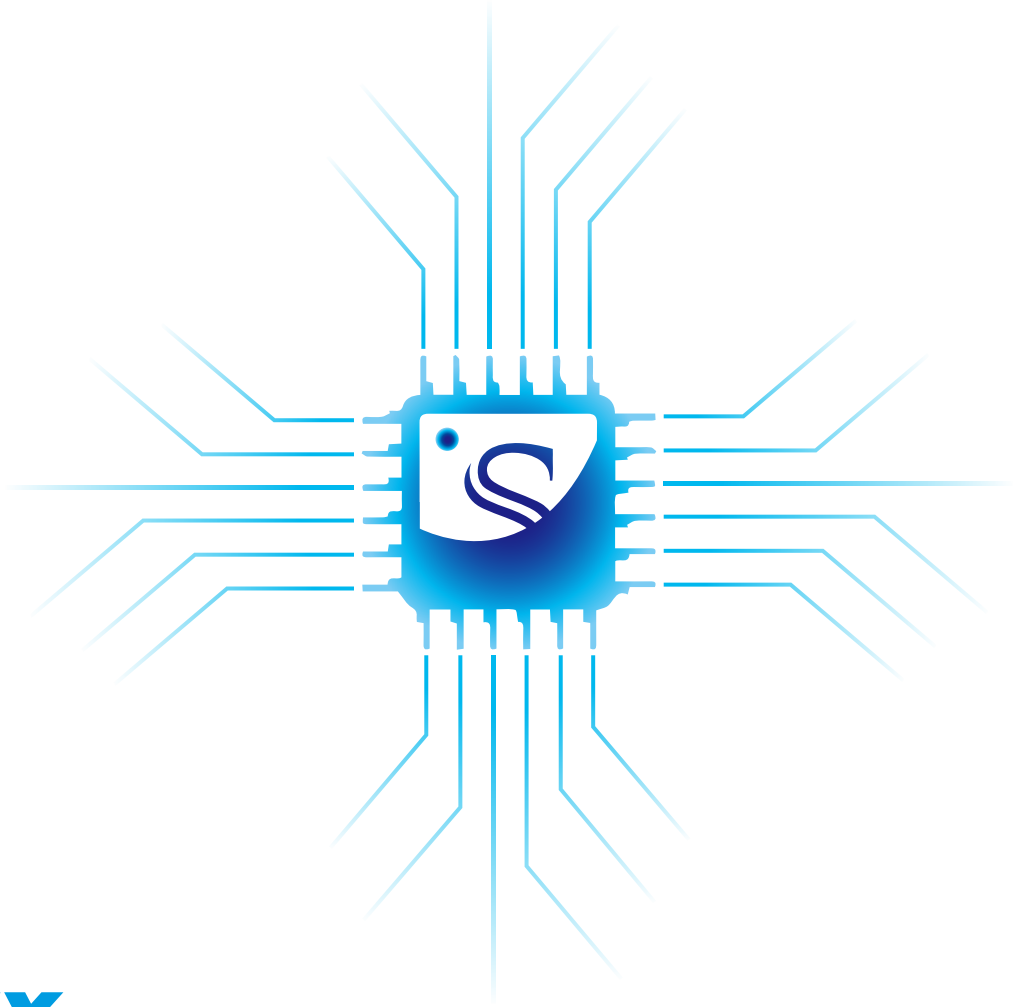
UTS4009C
USB-C to 4-port
Powered RS-232
Serial Hub

Printer Port



UTP1025B
USB to Printer
Adapter

UTM1925C
USB to RS-232 + Printer
Adapter



sunix

TAIWAN

TAIPEI HEADQUARTERS
Tel : +886-2-8913-1987

R&D CENTER
Tel : +886-2-8913-1987
Email : info@sunix.com.tw

CHINA

BEIJING
Tel : +86-10-65308421

SHENZHEN
Tel : +86-0755-82339025
Email : info@sunix.com.cn

EUROPE

GERMANY
Tel : +49 (0) 69-95209506
Email : info@sunix-euro.de

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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