



# PRODUCT GUIDE

AI Accelerator Card

CAN FD Card

RS-232/422/485 · DIO Card

IoT Products

Extension Accessories



[www.sunix.com](http://www.sunix.com)

***sunix***®

# The World's Best AI Accelerator Cards

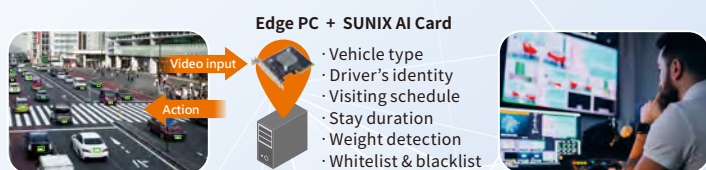
Optimize your video management system

## Features:

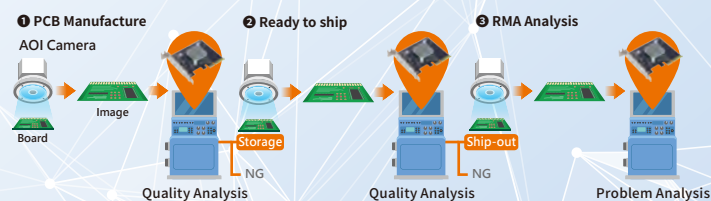
- ▶ AI frameworks: Tensorflow / Tensorflow Lite / Keras / Pytorch & ONNX
- ▶ Better Price-Performance Ratio & Power Efficiency vs Leading GPUs
- ▶ Simplified Software Integration, Seamless Integration Platform

## Application Scenarios:

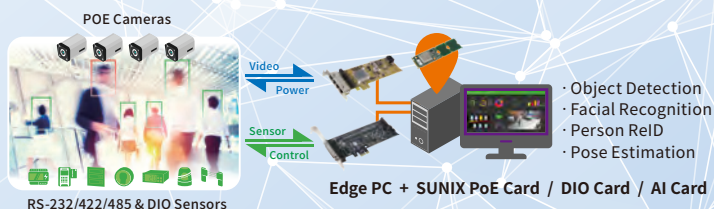
### License Plate AI Recognition



### PCB AI AOI System



### Smart Retail Video Management

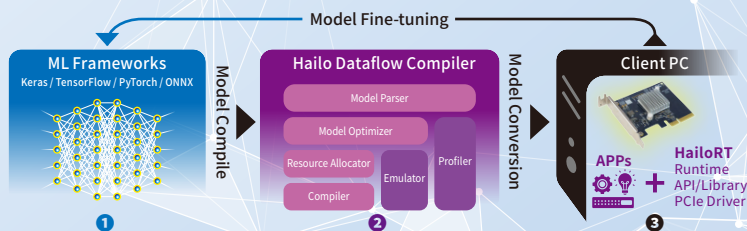


## Application-Support:

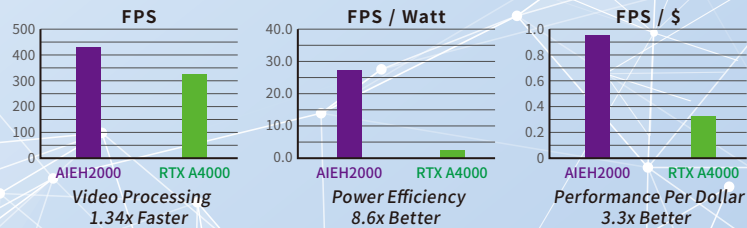
- ▶ Model Compiling / Conversion Service
- ▶ Model Fine-tune
- ▶ Fast Deployment

EMPOWERED BY  
**HAILO**

## Migration Workflow



## Outperforming the Competitions(in Yolov5m)

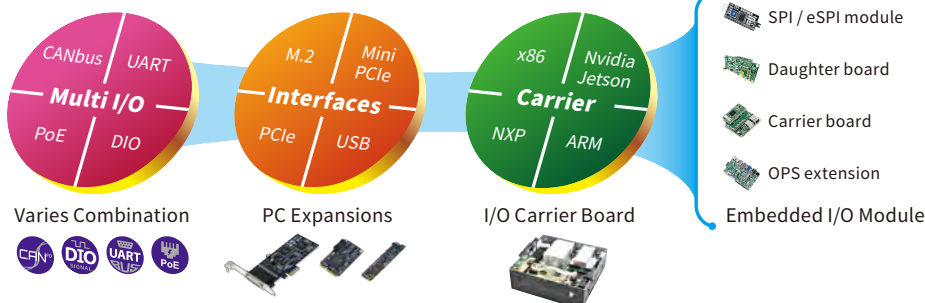


## Product family

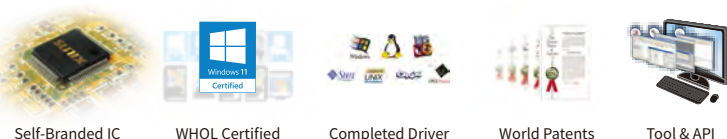


## SUNIX ODM Service

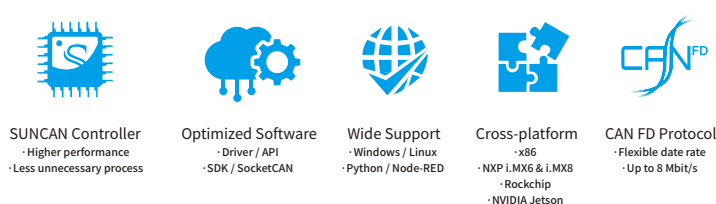
One-stop Solution Design Service for I/O Expansions



## 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	EZIAID8F 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

IDS02DW0  
RS-422/485

IDS302DW0  
RS-232/422/485

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



4-port

IDSX04DW0  
RS-232

IDS04DW0  
RS-422/485

IDS304DW0  
RS-232/422/485

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



8-port

IDSX08DW0  
RS-232

IDS08DW0  
RS-422/485

IDS308DW0  
RS-232/422/485

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

## Network PoE / Etherne Series



LAN4350PL  
4-port 1G BASE-T  
Network PoE  
PCIe Card

Power Input options:  
PCIe Bus power - 12V  
8 pin GPU power - 12V



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



M2L1225<sup>NEW</sup>  
2.5 GbE M.2 (Key-B+M) Module  
to RJ45 I/O board

M.2 Module Format:  
2280 / 2260 / 2242



# Add-on Cards




















## WHQL Certification

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






## M.2 Card

<b>CAN FD <span>NEW</span></b>  <b>CAN-M2102SI</b> 2-port CAN FD Industrial M.2 Card w/ Surge & Isolation (Type-2280)	<b>Digital I/O <span>NEW</span></b>  <b>IPC-M4443I</b> 4-Ch Digital In 4-Ch Digital Out Industrial M.2 Card w/ Isolation (Type-2280)	 <b>IPC-M4884I</b> 8-Ch Digital In 8-Ch Digital Out Industrial M.2 Card w/ Isolation (Type-2280)	<b>RS-422/485</b>  <b>IPC-B2108</b> 8-port RS-422/485 PCI/104 Card
<b>RS-232</b>  <b>M2S6437M</b> 2-port RS-232 <b>M2S6456M</b> 4-port RS-232 M.2 Card (Type-2242/2260/2280)	<b>RS-422/485</b>  <b>IPC-M2202S</b> Industrial 2-port <b>IPC-M2204S</b> Industrial 4-port RS-422/485 M.2 Card w/ Surge (Type-2280)	<b>RS-232/422/485 <span>NEW</span></b>  <b>IPC-M3202</b> Industrial 2-port RS-232/422/485 M.2 Card (Type-2280)	



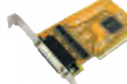

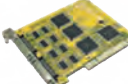









## PCIe Card

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

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

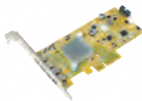
<b>RS-232 / Parallel</b>  <b>SER5027A</b> 1-port RS-232 PCI Card	 <b>SER5037A</b> 2-port RS-232 PCI Card	 <b>SER5056A</b> 4-port RS-232 PCI Card	 <b>SER5066A</b> 8-port RS-232 PCI Card	 <b>SER5016H</b> 16-port RS-232 High Speed PCI Card
 <b>PAR5008A</b> 1-port Parallel PCI Card	 <b>PAR5018A</b> 2-port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

# Extension Accessories



## USB Series

### USB4



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

### USB 3.2 Gen1

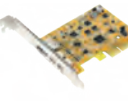


**USB2302**  
USB 3.2 Gen1 2-port  
PCIe Host Card  
(USBIF TID 350000174)



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

### USB 3.2 Gen2(Alt-Mode)



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

### USB 3.2 Gen2x2

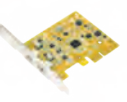


**USB2321C**  
USB 3.2 Gen2x2 20G  
PCIe Host Card  
w/ Type-C Receptacle

### 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 V2.0**  
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**  
USB-C to **HDMI 2.1 (8K@60Hz / 4K@144Hz) Active Adapter**  
W/ Detachable USB-C PD Cable

**C2HF3C1P**  
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**  
DVI-D  
to VGA Adapter



**H2V97C0**  
HDMI  
to VGA Adapter



**H2V57C0**  
Micro HDMI  
to VGA Adapter

## 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



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



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

### Powered COM



**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

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

## 1394b/a Series



**FWB3400T**  
1394b external FireWire port x2  
1394A sharing internal FireWire port x1  
PCIe Host Card

## OCuLink Kit

### OCUEKIT1<sup>NEW</sup> - OcuLink PCIe Kit(Low-Profile)



OCUE4221L  
Host in PCIe Gen4x4



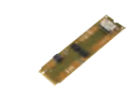
### OCUEKIT2<sup>NEW</sup> - OcuLink PCIe Kit



OCUE4221  
Host in PCIe Gen4x4



### OCUMKIT1<sup>NEW</sup> - OcuLink M.2 Kit



OCUM4221  
Host in M.2 (PCIe) Gen4x4



**OCUD4241**  
Host Extended  
SFF to PCIe Gen4x4



CHINA

TAIWAN

EUROPE

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.**"