



# Industrial Peripheral Solution Introduction

Product Division



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## Self-developed Chipsets

*Better reliability and supply control*



### Control

- ✓ Supports multiple serial communication interfaces: RS-232, RS-422, RS-485, ideal for long-distance and noise-resistant data transmission.
- ✓ Provides high-speed CAN FD communication for automotive and industrial automation control.
- ✓ Equipped with multiple Digital Input/Output (DIO) ports for easy connection to sensors and control devices

## Tech. Supports

### ✓ SDK & API Support:

*For selected models e.g. CAN / DIO*

### ✓ Sample codes:

Developer guides provided e.g. CAN / DIO

### ✓ Multi-OS Support:

Ensures long-term availability and OS compatibility across versions of Windows and Linux

### ✓ Driver & Utility Software:

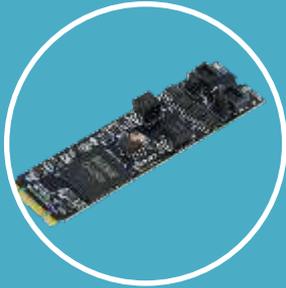
Simplifies system deployment



### Communication

- ✓ Supports various industrial communication protocols (e.g., Modbus, CAN FD) to ensure smooth data exchange between devices.
- ✓ Offers cross-platform drivers and comprehensive development kits for easy integration and development.
- ✓ HW / FW customization available to optimize features according to project requirements.

## CAN FD



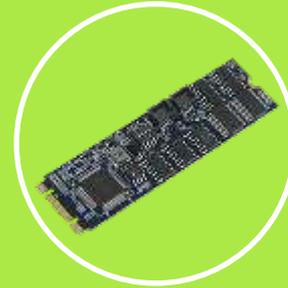
Unlike many vendors relying on third-party chips, SUNIX **CAN FD** products use our own in-house developed controller IC, optimized for industrial environments and high-reliability communication.

## DIO



SUNIX **DIO** modules feature internally developed digital I/O control ICs, delivering precise signal handling, isolation protection, and configurable logic levels.

## Serial I/O



SUNIX has been designing its own multi-port serial controller ICs for over 30+ years, making our **Serial I/O** cards among the most compatible, stable, and customizable in the market.

## LAN / PoE



SUNIX **LAN / PoE** products offer robust, industrial-grade solutions for delivering both power and data via Ethernet, simplifying deployments in distributed systems and reducing infrastructure costs.

*By designing both the hardware and the brains (ICs), SUNIX offers unmatched reliability and flexibility for industrial connectivity.*

CAN-M2102SI

CAN-C2102SI

CAN-E2104SI

CAN FD Series



Controller

SUNIX Self-Developed PCIe to CANFD Controller

Data bitrate

8 Mbit/s

8 Mbit/s

8 Mbit/s

Form Factors

M.2 2280 B+M

mPCIe full

PCIe HH

Channel

2

2

2 / 4

Isolation/Surge

0.5KV / 1KV

0.5KV / 1KV

2.5KV / 2KV



### High performance

Delivers the same level of performance as PEAK and KVASER



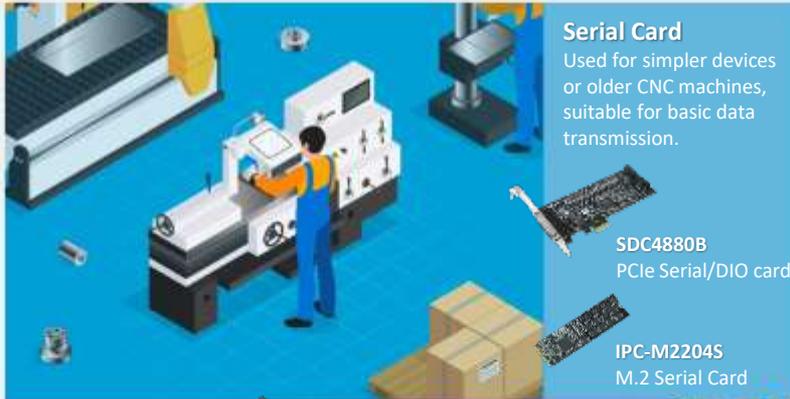
### Cost Efficiency

Provides high-end performance at a more competitive price, delivering excellent value.



### Comprehensive Usage

Easy integration into desktop PCs, embedded systems, IPCs



**Serial Card**  
Used for simpler devices or older CNC machines, suitable for basic data transmission.

**SDC4880B**  
PCIe Serial/DIO card

**IPC-M2204S**  
M.2 Serial Card



**CAN-E2102SI**  
PCIe CAN bus card

**CAN-M2102SI**  
M.2 CAN bus card

**CAN bus Card**  
In some CNC machines, it is used to connect servo drives, I/O modules, or sensors, especially in CNC equipment for vehicles, robotic arms.

## Use Case(Scenario) CNC Machine in Factory Automation

Older transmission protocols continue to be used due to its high reliability, simplicity, long-distance transmission capability, low cost, and compatibility with legacy devices.

### Challenges Faced by Customer:

- No Vents
- Stability and Reliability
- Legacy Equipment

### SUNIX Solution

With a focus on **PC**, **SBC**, and **MB** designs, **SUNIX peripherals** help customers overcome these challenges by offering:

- Passive Cooling
- Harsh Environment Resistance
- Longevity and Backward Compatibility

**SUNIX** is the trusted choice for factory automation, meeting the needs of CNC machines and other critical equipment by offering precision, stability, and easy maintenance while integrating with existing systems.



<b>Controller</b>	<b>SUNIX Self-Developed PCIe to DIO Controller</b>			
<b>Form Factors</b>	M.2 2280 B+M	mPCIe full	PCIe HH	PCIe HH
<b>Channel In / Out</b>	4+4 / 8+8	4+4 / 8+8	8+8 / 16+16	8+8
<b>Serial RS232/422/485</b>		n/a		4
<b>Isolation</b>	2.5KV	2.5KV	2.5KV	2.5KV



**Built for Developers**

With in-house IC design and a full featured SDK, SUNIX empowers your team to develop and debug smoothly, reducing time to market.



**Isolation Protection**

Industrial-grade isolation ensures stable and safe operation



**Comprehensive Usage**

PCIe, Mini PCIe, and M.2 form factors with multiple I/O channels for versatile integration



**CAN-M2102SI**  
M.2 CAN Bus Card

#### CAN Bus Card

Get info of core vehicle systems for vehicle status monitoring, fault diagnostics, driver behavior analysis, Remote vehicle management.



**IPC-M2204S**  
M.2 Serial Card

#### Serial Card

Facilitates external device communication for GPS, OBD-II, long-distance multi-device communication, black boxes, LED displays, RFID readers.



**IPC-M4884I**  
M.2 DIO Card

#### DIO Card

Handles safety and alert controls for Door & lock sensors, Emergency button (Panic Button), Warning lights & buzzers, vehicle proximity sensors.

## Use Case(Scenario) Telematics/Fleet Management in Transportation Industry

In the transportation industry, business owners seek to operate efficiently while prioritizing sustainability (ESG), reducing insurance costs, and protecting assets.

#### Challenges Faced by Customer:

- Lack of Real-Time Vehicle Data
- Unmonitored Driver Behavior
- Driver Fatigue Risks

#### SUNIX Solution

With a focus on **PC**, **SBC**, and **MB** designs, **SUNIX peripherals** help customers overcome these challenges by offering:

- Accurate Fuel, RPM, and Throttle Position Monitoring
- Driver Behavior Analysis & Scoring
- AI Facial Recognition for Fatigue Detection & Alerts

As a trusted partner in the transportation industry, SUNIX delivers rugged, compact M.2 modules for seamless integration into vehicle gateway systems—enhancing driver safety and operational efficiency.

\*Telematics = Telecommunication + Information



PCIe Serial IO Series	MSS6456M	SER6456ST	IPC-M2204S	IPC-M3202
Controller	SUNIX Self-Developed PCIe to Serial Controller (16C950 UART Compatible)			
Interface	RS232	RS232 powered	RS422/485	RS232/422/485
Form Factors	M.2 2242/2280 B+M	PCIe HH	M.2 2280 B+M	M.2 2280 B+M
No. of Port	2 / 4	4	2 / 4	2
Isolation / Surge	n/a	n/a	2KV	n/a



**Trusted Market Leader**

SUNIX cards are recognized as leaders in reliability, performance, and variety.



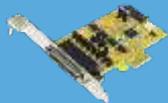
**Proven Across Industries**

Widely trusted and applied across diverse industries worldwide.



**Comprehensive Support**

Drivers for Windows, Linux, and more ensure seamless integration.



**SER6456ST**  
PCIe Powered  
Serial 4COM card

### Powered COM Card

For short-range device connections like POS systems, barcode scanners, and payment terminals.

## Use Case(Scenario) POS in Retail Business

In department stores or special sales events, retailers often face the challenge of setting up quickly and efficiently within a short time frame, then moving on to the next location to repeat the process.

### Challenges Faced by Customer:

- Diverse Devices Connectivity
- Frequent Setup and Teardown
- Varying Venue Sizes

### SUNIX Solution

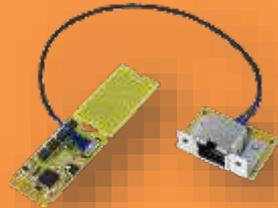
With a focus on **PC**, **SBC**, and **MB** designs, **SUNIX peripherals** help customers overcome these challenges by offering:

- Comprehensive Certifications
- Fast Setup and Usage
- Quick Switching by Size

**SUNIX** is the trusted choice for retail businesses, providing reliable, scalable, and easy-to-integrate solutions that streamline operations and ensure a smooth setup and teardown process across diverse sales environments.

## LAN / PoE Series

M2L1225



LAN2225P



LAN4350PL



Controller	Intel I225LM		Intel I350
Data bitrate	2.5GbE	2.5GbE	1GbE
Form Factors	M.2 2242/2280 B+M	PCIe HH	PCIe HH
RJ45 ports	1	1/2	4
IEEE 802.3	Non PoE	AF / AT	AF / AT



### Designed for Longevity

Built to last, with long product life cycles and consistent availability that align with industrial planning needs.



### High-Efficiency & Trust

SUNIX LAN cards are built with Intel chipsets to guarantee market-proven performance and lasting stability.



### Efficient Investment

Designed to maximize performance per dollar, making it ideal for budget-conscious industrial and embedded applications.



**LAN4350PL**  
PCIe LAN Card

#### PoE LAN Card

Not only connecting cameras but also the management of various smart devices, helping healthcare institutions improve efficiency, enhance patient care, and strengthen security.



**SER6456ST**  
PCIe Serial Card

#### Powered COM

Facilitates external device communication for LED displays, RFID readers etc. being utilized in smart healthcare with power and data to enable in one cable.



**IPC-M4884I**  
M.2 DIO Card

#### DIO card

It is widely used in smart healthcare environments for managing digital signals to enhance efficiency, automation, and real-time monitoring.

## Use Case(Scenario) Smart Healthcare/Assisted Living in Medical Industry

In care facilities, budget constraints and staffing shortages often make it difficult to maintain high-quality care. Caregivers frequently manage multiple residents simultaneously.

#### Challenges Faced by Customer:

- Undetected falls and medical emergencies
- Access control for restricted and hazardous areas
- Balancing privacy and safety

#### SUNIX Solution

With a focus on **PC**, **SBC**, and **MB** designs, **SUNIX peripherals** help customers overcome these challenges by offering:

- Privacy-preserving fall detection (blurred imaging)
- Real-time access control & alerts
- Behavior monitoring & alerts

**SUNIX** is the trusted choice for enhancing resident safety and well-being, delivering high-quality service while optimizing operational efficiency. It's a win-win for both business owners and customers.



**LAN4350PL**  
PCIe LAN Card

#### PoE LAN Card

Mainly connecting to cameras, also bridging devices, like access control point, lighting system, audio system, Sensor gateway, the home automation control centers.



**IPC-M3202**  
M.2 Serial Card

#### RS232/422/485

Facilitates device communication for long-distance multi-device communication, and improving energy management more stable operations.



**IPC-M4884I**  
M.2 DIO Card

#### DIO Card

It is widely used in smart building/home environments for managing the lighting control, access control, appliance control, curtain or blinds control, alert/warming.

## Use Case(Scenario) Smart Building/Smart Home in Construction Industry

Smart buildings and smart homes face a variety of challenges, including issues with interior design, maintenance, and aesthetics, often caused by the numerous devices scattered throughout the facilities.

### Challenges Faced by Customer:

- Complex Wiring
- Difficult Maintenance and Management
- Space and Aesthetic Issues

### SUNIX Solution

With a focus on **PC**, **SBC**, and **MB** designs, **SUNIX peripherals** help customers overcome these challenges by offering:

- Simplified Wiring
- Centralized Management
- One Cable for Space Saving and Easier Installation

**SUNIX** is the trusted partner in the construction industry, offering a comprehensive range of add-on cards, including PoE, DIO, and AI solutions, to meet diverse use case requirements.

# Why SUNIX

At SUNIX, **our vision is to be the world's No.1 peripheral provider**, delivering cutting-edge connectivity solutions that power businesses across industries. With 4 decades of expertise, we ensure **seamless integration, superior performance, and future-proof technology** for automation, retail, healthcare, and industrial applications.

## What Sets SUNIX Apart?

- ✓ **Innovative Design** – Advanced PC, SBC, and MB solutions for diverse industries
- ✓ **Unmatched Reliability** – Industrial-grade products designed for 24/7 operation
- ✓ **Seamless Compatibility** – Broad connectivity support for maximum flexibility
- ✓ **Efficient Deployment** – Quick setup, easy integration, and low maintenance
- ✓ **Global Recognition** – Approved by the worldwide well-known branding companies

## The SUNIX Advantage

By going together, you gain more than just a supplier - you gain a **strategic partner** dedicated to **innovation, quality, and customer success**. Our solutions **boost efficiency, reduce costs, and keep businesses ahead of the competition**.

**SUNIX - Powering Connectivity, Driving Innovation.**

***Go Together,  
We Go Far and Grow Big!***