

IoT Products series

Cloud Gateway

Ethernet IO Gateway

- EZG1000 EAZInet Gateway
- EZG1200 Microsoft Azure Gateway
- EZG1300 MQTT Gateway

DevicePort Remote I/O Module(DIO/AIO)

AI model		DIO model		Industrial		Serial model		AI model		DIO model		Combo model	
EZR5231 4-port AI		EZR5002 2-port DI 4-port DO				EZISNN40 4-port COM		EZIANN80 8-port AI		EZIDIDFF 32-port DI		EZIAD18F 8-port AI 16-port DI	
		EZR5003 3-port DI 3-port DO				EZISNS44 8-port COM				EZIDC8N80 8-port DI 8-port DO		EZIADC88 8-port AI 8-port DI 8-port DO	
		EZR5004 4-port DI 2-port DO								EZIDIDOFF 16-port DI 16-port DO			

DevicePort Remote I/O Module (RS-232/422/485)

DPA301HTP 1-port RS-232/422/485	DPAD02HTP 2-port RS-422/485	DPAS01D00 1-port RS-232	DPAS02H00 2-port RS-232	DPAS04H00 4-port RS-232	DPAS08H00 8-port RS-232
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PCIe Expansion Card

RS-232		RS-422/485		DI/DO	
M2S6437A 2-port RS-232 M.2 PCIe Card (Type-2242)	M2S6456A 4-port RS-232 M.2 PCIe Card (Type-2242)	IPC-M2202S Industrial 2-port RS-422/485 M.2 PCIe Card w/Surge (Type-2280)	IPC-M2204S Industrial 4-port RS-422/485 M.2 PCIe Card w/Surge (Type-2280)	IPC-M344I 4-Ch Digital in 4-Ch Digital Out Industrial Isolated M.2 Card	
Industrial					
SDC0880I 8-Ch Digital In 8-Ch Digital Out Industrial PCIe Card	SDC4880B 2-port internal RS232/422/485 2-port external RS232/488/485 8-Ch Digital In 8-Ch Digital Out Industrial PCIe Card	SDC0FF0I 16-Ch Digital in 16-Ch Digital Out Industrial Isolated PCIe Card			

Serial Device Server

			Commercial version	
IDSX02DW0 RS-232	IDSX04DW0 RS-232	IDSX08DW0 RS-232	CDSS02D00 RS-232	CDSX02D00 High Speed RS-232
IDS02DW0 RS-422/485	IDS04DW0 RS-422/485	IDS08DW0 RS-422/485	2-port	
IDS302DW0 RS-232/422/485	IDS304DW0 RS-232/422/485	IDS308DW0 RS-232/422/485		
IDS302DWS RS-232/422/485 w/ Surge & Isolation	IDS304DWS RS-232/422/485 w/ Surge & Isolation	IDS308DWS RS-232/422/485 w/ Surge & Isolation		
2-port	4-port	8-port		

ECS Application Kits

Intelligent ToT	Smart Meter Monitoring	
Environmental Monitoring	Machine Operation Rate	Electronic Fense

SUNIX ECS (EASInet & IoT Central Solution) Starter kit simplify retrieving data from sensors and devices in the cloud, enabling workers and managers to monitor equipment. This type of equipment monitoring can be catered to the needs of a company (e.g. energy and environmental monitoring). It's compliant with any interface of sensors. Setting up SUNIX IoT Central Starter kit only takes a few simple steps. It's available for an extremely low monthly leasing fee, eliminating the cost associated with procurement and maintaining server hosts.

- Non-invasive transformation**
Safely obtaining data without breaking into machine.
- Simplify personnel operation**
Fully control without additional operation mechanisms.
- No programming experience needed**
SUNIX integrates with Microsoft Azure IoT Central, bring out brand new experience in device control.
- Microsoft Azure IoT Central**
Data event log, Dashboard display, Big data analysis, Graphical report, and many more available services.

Google Cloud, IBM Cloud, Alibaba Cloud, AWS, Azure

SUNIX

EASInet®-ting device data to cloud

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SUNIX EAZInet[®] patented Communication Technology

The transmission architecture of EAZInet underlayer is build upon high efficient Ethernet, flexible and innovative I/O expansion technology. It provides a brand-new way to I/O expansion, in which underlayer equipments get online through "plug & connect" without any IP address setting and management. Users can easily upload data from underlayer equipments to cloud through standard network protocol.

EAZInet-patented technology supports the functions of automatic numeration and data visualization, which helps platform developers easily identify connected equipments, rapidly deploy and control end devices in order to perform the tasks of data acquisition and analysis for application development.

Application Layer



Platform Layer



Communication Layer



Fast & Flexible Deployment

- *IP-free setting, plug & play
- *Support complete network topology
- *Single solution for different devices

Standard Ethernet Protocol

- *Standard Ethernet network packet transmission
- *Proactive Event Based Mode instead of old polling mechanism
- *No need to convert different communication protocol layer by layer

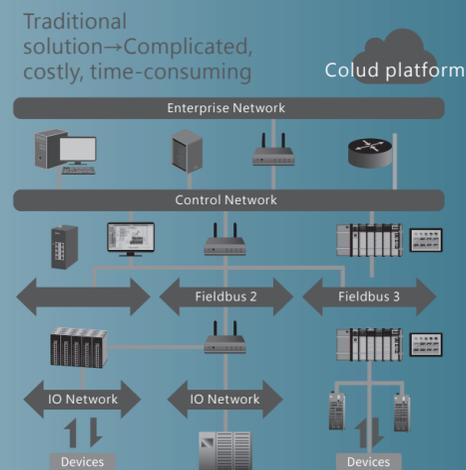
Object-oriented/ Enumeration

- *Auto-acquisition on device and data
- *WYSIWYG for platform developer
- *Rapid and direct control over underlayer devices

Physical/ Perception layer

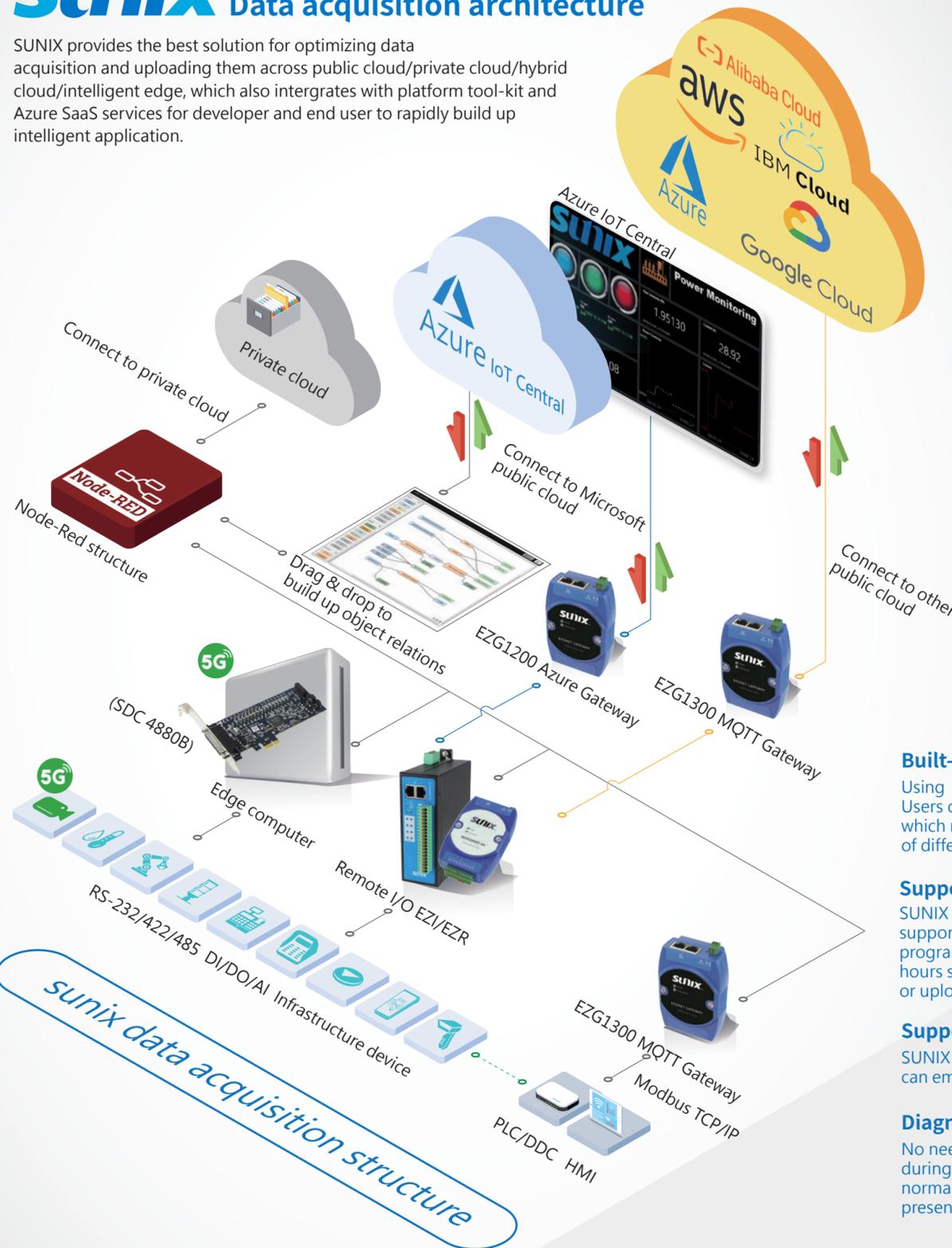


EAZInet[®] and Traditional Network



SUNIX Data acquisition architecture

SUNIX provides the best solution for optimizing data acquisition and uploading them across public cloud/private cloud/hybrid cloud/intelligent edge, which also intergrates with platform tool-kit and Azure SaaS services for developer and end user to rapidly build up intelligent application.



Built-in Modbus Protocol Agent

Using "Agent" to acquire Modbus data and translate it into MQTT cloud Protocol. Users can also set the device parameters of Modbus and Analog-in by themselves, which means that users can integrate their existing devices or choose various sensors of different brands in cost effective way.

Support Node-RED software platform

SUNIX Remote I/O (EZI/EZR series) and intelligent I/O card (SDC series) support mainstream IO software platform of NODE-RED which requires no programming efforts. Users can build up digital dashboard within a few hours simply through drag & drop objects while storing information locally or uploading to Azure cloud simultaneously.

Support Edge-X advanced development

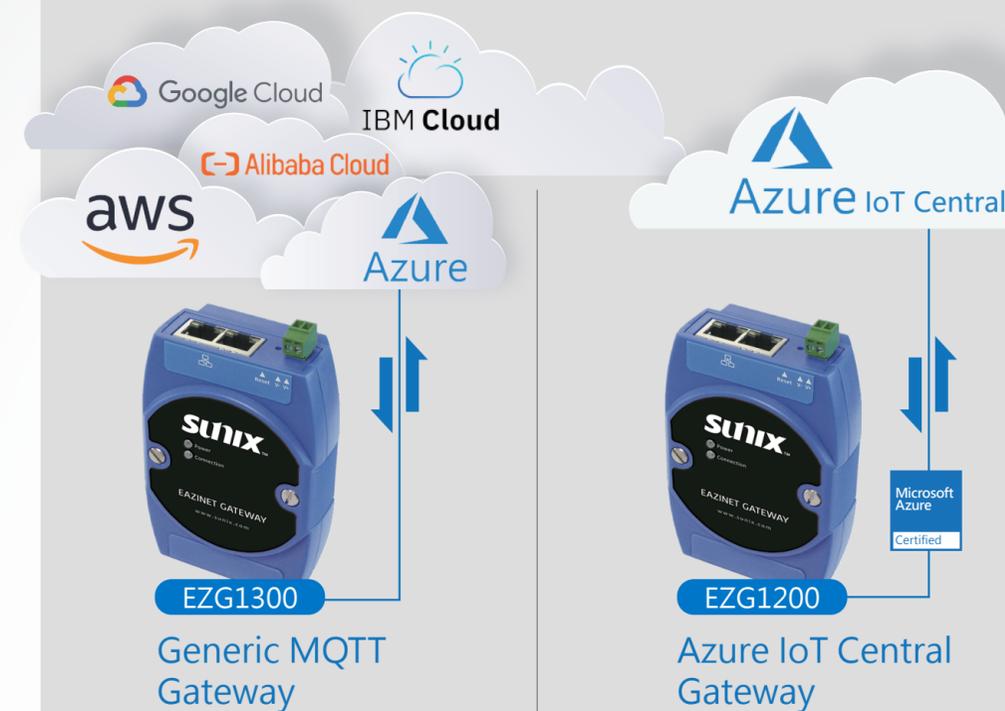
SUNIX intelligent I/O card and Remote I/O series both support Edge-X, users can employ Go language to rapidly build up intelligent IoT platform.

Diagnostic - intelligent debugging

No need on using extra tool. Users can rapidly identify and rule out problem during installation as soon as logging into Web-based manager to ensure normal communication among underlayer devices and correct information presenting on cloud digital dashboard.

The best cloud gateway

Support all device data uploading to cloud



- Built-in Modbus Protocol Agent ·Built-in SUNIX EAZInet technology
- Built-in 2 x 10/ 100 Ethernet ports support daisy-chain topology expansion
- Support on underlayer device support wall-mounted and DIN-rail installation
- Support diagnostic function and fast debugging for correct installation

Simple 4 steps

- 1 Device connection**
Ethernet I/O module (UART · DIO · AIO)
- 2 Interface setting**
Reading sensors' information status (Modbus · String · Float · Int)
- 3 Service setting**
Activating Microsoft Azure IoT Central services
- 4 Console setting**
Arranging Azure IoT Central graphic interface