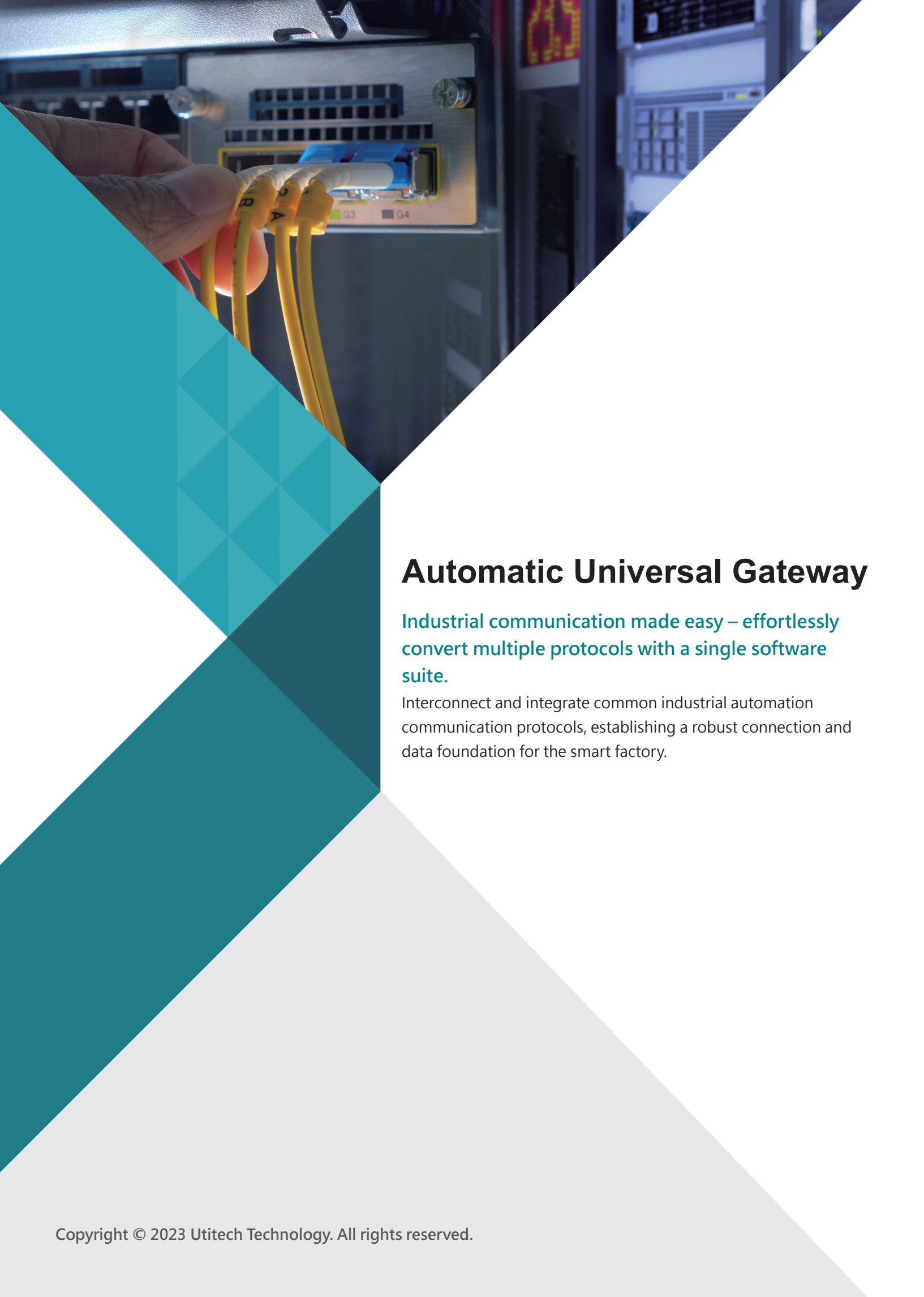




Automatic Universal Gateway

Industrial communication made easy – effortlessly convert multiple protocols with a single software suite.

Interconnect and integrate common industrial automation communication protocols, establishing a robust connection and data foundation for the smart factory.

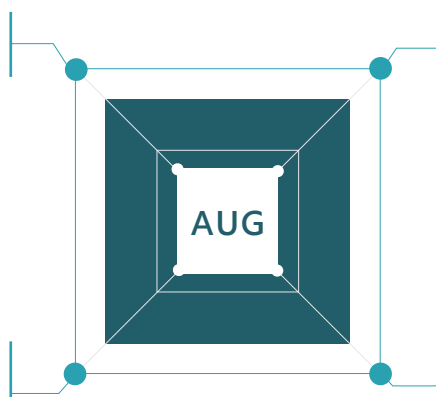
AUG assists you in integrating commonly used communication protocols in industrial automation

AUG is an industrial communication integration platform that can seamlessly connect different industrial automation communication protocols. It eliminates the need for multiple drivers to convert various protocols, making it easier to overcome communication challenges between industrial systems, devices, and PLCs. Additionally, it facilitates the integration of real-time data into databases.

Benefits

A single platform that integrates multiple communication protocols for easy and efficient management.

Allowing you to freely customize the communication output way, offering high application flexibility.



Offering a Web API for easy custom development and data integration by IT operators.

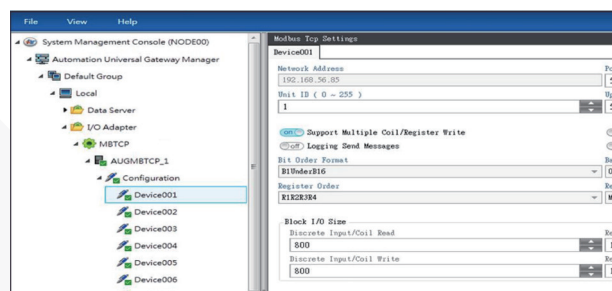
Seamlessly connecting real-time data to databases, eliminating the hassle of collecting big data.

Key features

1. Diverse communication modules and intuitive management interface

Including 7 sets of Data Server and 14 sets of IO Adapter communication modules, supporting the majority of commonly used industrial communication protocols. You can organize connected devices in a hierarchical structure for your convenience in management.

(Detailed support list available upon request or downloadable from the AUG introduction page on website.)



2. Recording real-time data into the database

For each tag, you have the flexibility to customize which database it is stored in and what data is placed in each column.

The screenshot shows the 'DES Property Window' interface. It has a 'Description' field with the value 'Demo' and a 'Table Name' dropdown menu with the value 'AUGTestTable'. Below these fields, there are 'Start Time (HH:MM:SS)' and 'Update Interval (second)' fields. The main part of the window is a table with the following columns: 'Name', 'Item Reference', 'Data Type', and 'Allow Null'. The table contains 9 rows of data, each representing a tag and its configuration.

Name	Item Reference	Data Type	Allow Null
Datetime	=(WriteTimes timestamp)	DateTime	☒
Tag1	=AUGMB_DeviceGroup_Device.30001	NVarChar	☒
Tag2	=AUGMB_DeviceGroup_Device.30002	NVarChar	☒
Tag3	=AUGMB_DeviceGroup_Device.30003	NVarChar	☒
Tag4	=AUGMB_DeviceGroup_Device.30004	NVarChar	☒
Tag5	=AUGMB_DeviceGroup_Device.30005	NVarChar	☒
Tag6	=AUGMB_DeviceGroup_Device.30006	NVarChar	☒
Tag7	=AUGMB_DeviceGroup_Device.30007	NVarChar	☒
Tag8	=AUGMB_DeviceGroup_Device.30008	NVarChar	☒
Tag9	=AUGMB_DeviceGroup_Device.30009	NVarChar	☒

3.Diagnosing communication

Real-time monitoring of the connection status between the system and devices, as well as the real-time values and communication quality of each tag.

Diagnostics			Update Interval(ms)
Tag Filter			1000
Item Name	Value	Time Stamp	
00001	1	10/30/2018 3:46:25 PM	
00002	1	10/30/2018 3:46:25 PM	
00003	0	10/30/2018 3:46:25 PM	
00004	0	10/30/2018 3:46:25 PM	
40001	1095	10/30/2018 3:46:25 PM	
40002	1221	10/30/2018 3:46:25 PM	
40003	25994	10/30/2018 3:46:25 PM	
40004	24626	10/30/2018 3:46:25 PM	
40011 F	0.07006495	10/30/2018 3:46:25 PM	
40013 F	0.4856439	10/30/2018 3:46:25 PM	
40015 F	0.4561994	10/30/2018 3:46:25 PM	
40017 F	0.1923892	10/30/2018 3:46:25 PM	

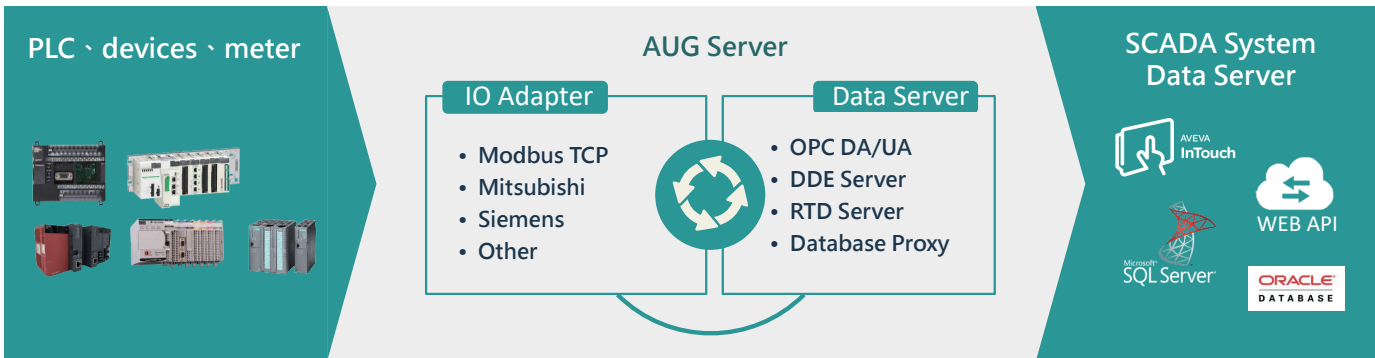
4.Offering System Integration and Custom Development

AUG excels in performing low-level data conversion, making it convenient for users to create reports, access graphical interfaces, and design custom screens, AUG offers a Web API interface, making development and integration more convenient.



Application scenarios

Seamless Conversion of Various Communication Protocols.



Supported communication protocols and PLC models

AUG Support List

For any specific or custom requirements, please contact our sales representatives or inquire through our official Line account.

Standard configuration

Core module

Module	Server	Type	Version	Protocol
AUG Core	Microsoft	Dynamic Data Exchange (DDE) Server	Non	DDE Server
	OPC Foundation	Data Access (DA) Server	2.0 / 3.0	OPC DA Server
		Data Access (UA) Server	1.0	OPC UA Server

Upstream communication

Data Server module - Software

	Module	Server	Type	Version	Protocol
1	DES	Database	Microsoft SQL Server / Oracle Database	Microsoft SQL Server 2012 / 2014 / 2016 : Express / Standard / Enterprise Oracle Database 11g / 12c / 18c	Database Exchange Server
2	HDC	AVEVA	InTouch Hist Data Converter	AVEVA InTouch 2014 R2 SP1 or above	HistDataConverter
3	PI		PI Data Archiver	AVEVA PI System 3.4.440.477	PI
4	MBS	Modbus Organization	Modbus Slave	Non	Modbus Slave
5	RTDS	Web	JSON data format and UTF8 encoding	Non	Real-time Data Server

Downstream communication

IO Adapter module - Software

	Module	Client	Type	Version	Protocol
1	AHC	AVEVA	Historian Client	AVEVA Historian 2014 R2 SP1 / 2017 / 2023	Historian SDK
2	IT		InTouch (IDEA)	AVEVA InTouch 2014 R2 SP1	IDEA
3	SLC		SuiteLink Client	AVEVA SuiteLink 2014 R2 SP1 / 2017 / 2020R2 / 2023	SuiteLink
4	PRISM		Predictive Analytics Web API Client (PRISM)	AVEVA Predictive Analytics 2020 (PRISM)	PRISM Web API
5	DBC	Database Client	Microsoft SQL Server	Microsoft SQL Server 2012 / 2014 / 2016 : Express / Standard / Enterprise	ODBC
6	DDEC	Microsoft	Dynamic Data Exchange (DDE) Client	Non	DDE
7	WMI		Windows Management Instrumentation	Non	Windows
8	OPCDAC	OPC Foundation	Data Access (DA) Client	2.0 / 3.0	OPC DA / UA Client
			Data Access (UA) Client	1.0	
9	WEBC	Web Client	Simple Object Access Protocol (SOAP)	Non	Web SOAP
			Representational State Transfer (Restful)	Non	Web Restful

Downstream communication

IO Adapter module - PLC

	Module	PLC	Type	Protocol	Interface
1	AB	Allen-Bradley (AB)	CIP SLC500, CompactLogix, MicroLogix , ControlLogix	AB TCP	TCP
2	CP218IF	Yaskawa	CP218TX	Yaskawa PLC(Memobus)	TCP
3	FATEK	FATEK	FBs PLC	FATEK FBs Series	RS232 / 485
4	GESRTP	Emerson (GE)	90-30, 90-70, RX3i, Rx7i, VersaMax , VersaMax Micro, VersaMax Nano	GESRTP	TCP
5	GESNP		90-30, 90-70, RX3i, Rx7i, VersaMax , VersaMax Micro, VersaMax Nano	GESNP	RS-232 / 422
6	KEYENCE	Keyence	KV Nano, KV-700 / 1000 / 3000 / 5000 / 7000 / 8000	Keyence PLC	TCP
7	MB	Modbus Organization	Modbus TCP	Modbus Ethernet	TCP
			Modbus ASCII / RTU	Modbus Serial	RS-232 / 485 / 422
8	MTAQ MTFX	Mitsubishi	A Series, AnA / AnU Series, Q Series, QnA Series, iQ-R Series , iQ-F Series, FxN Series, FX3U Series, FX5U Series	Mitsubishi Ethernet	TCP / UDP
			A Series, AnA / AnU Series, Q Series, QnA Series, FxN Series, FX3U Series, FX5U Series	Mitsubishi Serial	RS-232 / 485 / 422
9	OMRON	OMRON	CS / CJ / CP / CV Series	Omron FINS Ethernet	TCP / UDP
			CS / CJ / CP / CV Series	Omron FINS Serial	RS-232 / 485
10	S7	Siemens	S7-200 / 300 / 400 / 1200 / 1500	SIEMENS S7	TCP

Downstream communication

IO Adapter module - Device

	Module	Device	Type	Protocol	Interface
1	GJSCALE	(Weighing Indicator) A&D Weighing	AD-4328	A&D Weighing Protocol	RS-232 / TCP
2	OMNI	(Flow Computers) Omni	3000 / 6000 Flow Computers	Modbus (Special)	RS-232
3	Quad2000	(Compressor) Cooper Turbocompressor	Quad 2000	Quad 2000 Protocol	RS-232
4	CV375	(Seismometer) TOKYO SOKUSHIN	CV-375 Network Sensor	TOKYO SOKUSHIN CV375	TCP

System compatibility of AUG



Operating system

- ◆ Windows 10 / 11 Pro
- ◆ Windows Server 2012 R2 or above ;
Standard / Data Center



Supported browsers

- ◆ Microsoft Edge
- ◆ Mozilla Firefox
- ◆ Google Chrome
- ◆ Safari



Database

- ◆ Microsoft SQL Server 2012 or above ;
Express / Standard / Enterprise



Hardware requirements

- ◆ Processor : 2.4 GHz or faster processor
- ◆ RAM : 8 GB or above
- ◆ Free space on hard drive : 500 GB
- ◆ Network : 1 Gigabit Ethernet
- ◆ Display 1920*1080 or higher

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