Model 98019-IG

Features

- Highly cost-effective solution

- Built-in OPC communication protocol, supporting multiple major PLC drivers simultaneously as well as SECS/GEM standards

- High information security with OPC UA

- User-friendly interface with low-code setup

- Easily solves data transmission efficiency and stability issues

- Web-based development interface, offering cross-platform operation, no need for client software installation, and easy remote access and integration

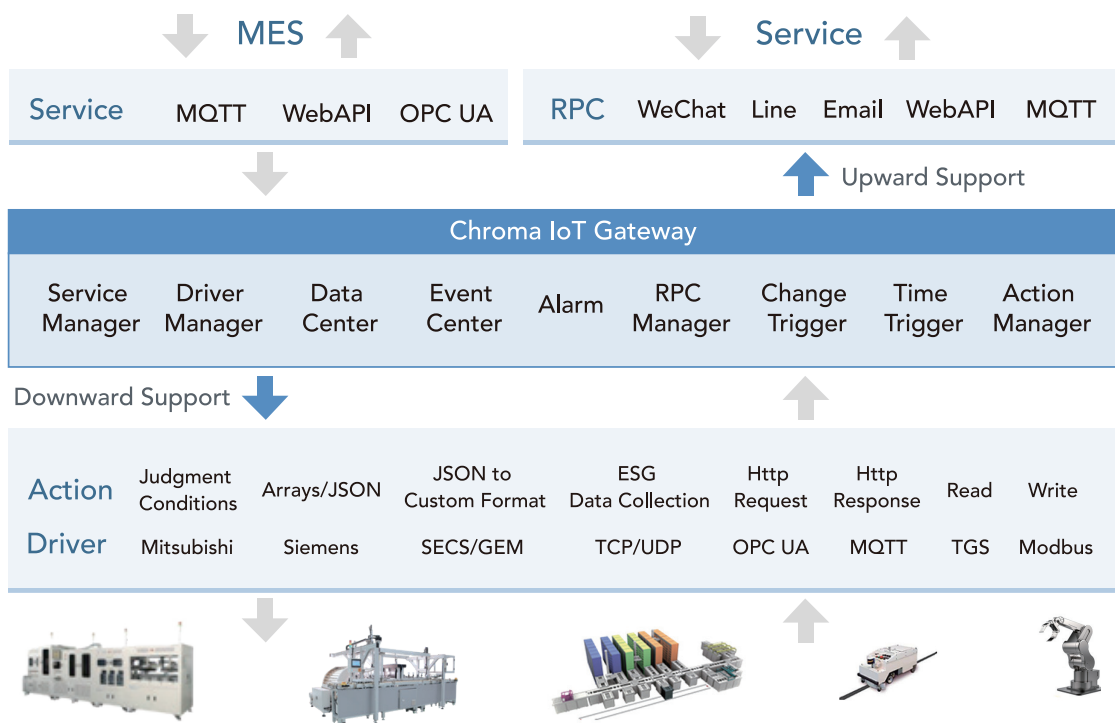- Powerful multitasking capabilities and high data capacity

IoT Gateway
Model 98019-IG

The Key to Industrial IoT Connectivity

Core Communication Software for Industrial Automation

Chroma IoT Gateway is a powerful software platform designed to solve complex data communication challenges in industrial networks. This communication software enables streamlined data collection, integration, and management across a variety of devices and applications. Users can easily connect, monitor, and control diverse automation equipment through an intuitive interface.

Bridge the Gap between MES and Automation Equipment

Chroma IoT Gateway integrates widely used industrial automation communication protocols, including various types of PLCs, sensors, and robotic arms. The software can also be used with Chroma's DCN-820 data collector, integrating factory equipment and the Manufacturing Execution System (MES) in one system. This allows data from various industrial devices to be converted and transmitted to the MES, achieving efficient data integration and real-time communication

between equipment and MES. It enables real-time monitoring of equipment status, management of machine parameters and recipes, quality control of production, reducing defects, and increasing productivity.

Support for SECS and Non-SECS Interfaces

Chroma IoT Gateway supports both SECS and non-SECS interfaces. This versatility extends to its host architecture, allowing deployment on PC or Linux operating systems, as well as Chroma's DCN-820 equipped with Linux OS. Beyond SECS, the gateway accommodates a wide array of non-SECS interfaces, including databases, Web APIs, PLC drivers, OPC UA, and Modbus. For SECS interfaces, the Chroma DCN-820 can function as either the Equipment Side or Host Side. This enables customized EAP architecture solutions tailored to specific customer requirements.

DCN-820

Chroma
Advancing Excellence

Functional Highlights

❶ Built-in OPC Protocol: supports multiple major PLC drivers simultaneously

[OPC UA] [Modbus] [SECS/GEM]

▼ PLC
- Mitsubishi PLC
- Siemens PLC
- Omron PLC
- Yaskawa PLC

❷ Unlimited Connections (based on actual data transfer frequency): supports simultaneous execution on multiple machines to meet entire plant needs

❸ Flexible Host Architecture: compatible with Windows, Linux, or systems like Chroma's DCN-820 Linux system

▸ DCN-820

❹ Faster PLC Point Reading Speed: direct connections with no intermediary minimize delay

❺ Convenient Maintenance: users can easily perform online machine operations through a graphical drag-and-drop interface

▼ IoT Gateway

IoT Gateway Functional Architecture

MES

Service	MQTT	WebAPI	OPC UA

Service

RPC	WeChat	Line	Email	WebAPI	MQTT

Upward Support

Chroma IoT Gateway

Service Manager	Driver Manager	Data Center	Event Center	Alarm	RPC Manager	Change Trigger	Time Trigger	Action Manager

Downward Support

Action	Judgment Conditions	Arrays/JSON	JSON to Custom Format	ESG Data Collection	Http Request	Http Response	Read	Write
Driver	Mitsubishi	Siemens	SECS/GEM	TCP/UDP	OPC UA	MQTT	TGS	Modbus

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