kontron

The Power of IoT

Kontron AIS GmbH

FabLink®

The Easy Way to a SEMI-Compliant SECS/GEM Interface

FabLink® is your standard compliant connectivity solution for SECS/GEM interfaces for the vertical integration of production equipment. It enables you to implement the extensive interface requirements very quickly and in compliance with the SEMI Generic Equipment Model (GEM) standard.

Based on a SECS/GEM interface, you can integrate your equipment into semiconductor, PCB, LED, flat panel and OLED factories. With the SEMI-PV standard adapted to the photovoltaic industry, integration into photovoltaic factories is achieved. The SEMI A3 standard enables shop floor communication in PCB manufacturing.

Your benefits

❯ SEMI-compliant solution

❯ Support of SECS/GEM, GEM300, PV02, SEMI A3 and EDA (Interface A) in one solution

❯ Reduced development effort for equipment suppliers

❯ Time savings thanks to prepared SEMI documentation
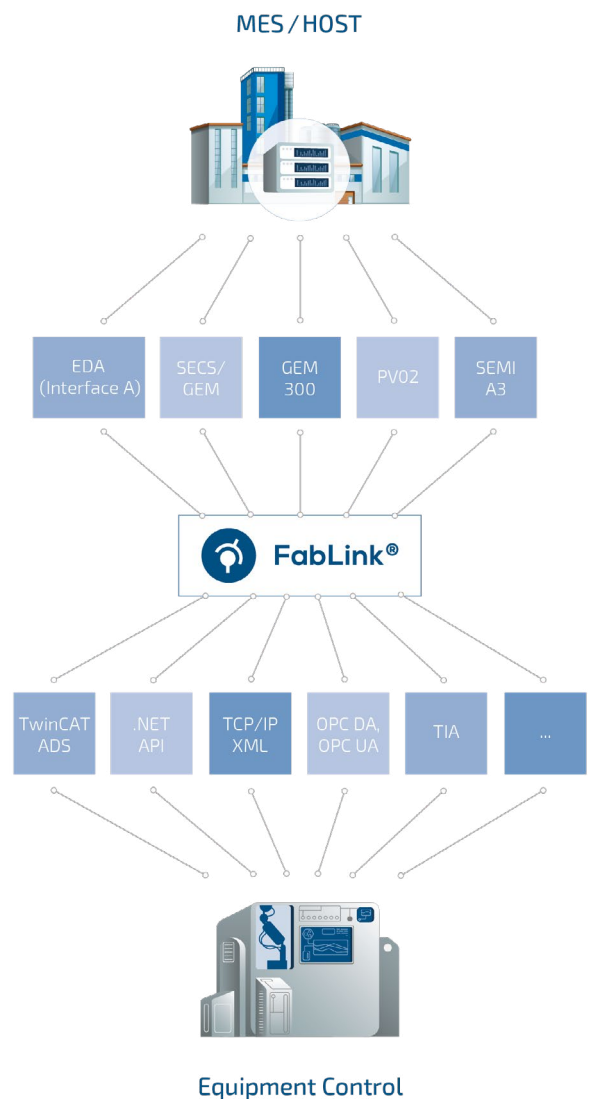
❯ Support and individual extensions

Features

✔ **SEMI-compliant SECS/GEM implementation**

✔ **Implementation of additional GEM functions**

✔ **Support of additional GEM functions**

› Spooling

› Limits Monitoring

› Terminal Services

› EDA (Interface A)

› GEM300 Support

✔ **FabLink® Designer**

The FabLink® Designer is an integrated module for easy and clear configuration of the SECS/GEM interface for your equipment control. The export function of FabLink® Designer provides a prepared interface documentation (GEM manual) in an open file format.

✔ **Easy connection of your equipment**

Use the C#/.NET API to connect your high-level language application or to connect your tool to FabLink® using TCP/IP XML, OPC DA or OPC UA. FabLink® also supports the integration of PLCs, e. g. from Siemens, Beckhoff or Mitsubishi, with ready-made libraries.

MES / HOST

EDA (Interface A) — SECS/ GEM — GEM 300 — PV02 — SEMI A3

FabLink®

TwinCAT ADS — .NET API — TCP/IP XML — OPC DA, OPC UA — TIA — ...

Equipment Control

Libraries and protocols

For equipment control,
e. g. Siemens, Beckhoff,
Mitsubishi or XML,
C#/.NET API, OPC DA, OPC UA

FabLink® Designer

Easy configuration
and creation of
SEMI documentation

Time-to-market

Fast and easy
implementation of
SECS/GEM interfaces

Supported SEMI standards

SECS/GEM

› E04 SECS I

› E05 SECS II

› E30 GEM

› E37 HSMS

› Documentation

› E167- Specification for Equipment Energy Saving
Mode Communications (EESM)

GEM300

› E39 Object Service

› E40 Processing Management

› E87 Carrier Management

› E90 Substrate Tracking

› E94 Control Job Management

› E116 Equipment Performance Tracking

Interface A (EDA Freeze I + Freeze II)

› E120 Common Equipment Model

› E125 Equipment Self Description

› E128 Specification for XML Message Structures

› E132 Authentication and Authorization

› E134 Data Collection Management

› E138 Semiconductor Common Components

› E145 Classification for Measurement Unit
Symbols in XML

PV02

› Guide for PV Equipment Communication
Interfaces (PVECI)

SEMI A3

› Specification for Printed Circuit Board Equipment
Communication Interfaces (PCBECI)

Our service

Training, requirement analysis, consulting, imprementation, comissioning support and support – To integrate your equipment and realize the implementation of a SECS/GEM interface, you can choose from our portfolio the services that are right for you.

Our comprehensive trainings will also enable you to configure further SECS/GEM interfaces by yourself to meet your specific requirements.

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Kontron AIS GmbH

Kontron AIS GmbH sets the benchmark in industrial software – for more than 30 years and with an experienced team of over 250 employees. The proven software products and customized digitalization solutions enable machine and equipment builders as well as factory operators to break new ground in automation and secure long-term competitive advantages. Together with its customers, Kontron AIS implements worldwide cross-industry, intelligent digitalization strategies and solutions for the smart manufacturing of tomorrow.

As a subsidiary of the Kontron AG, Kontron AIS offers integrated, end-to-end IoT concepts consisting of hardware and software as well as worldwide project management, service, and support thanks to a global network.

Software Development

Consulting and Requirement Engineering

Project Management and Training

Supply of Hardware for Control and IT Systems

On-Site Installation and Commissioning

Flexible, Global Service and Support

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