

kontron

The Power of IoT

Kontron AIS GmbH



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FabLink®

The Easy Way to a SEMI-Compliant Interface SECS/GEM, GEM300, EDA

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.

Production systems can therefore be easily integrated into different production areas - for example in semiconductor and printed circuit board (PCB) production as well as in LED, OLED and flat panel factories. In the photovoltaic industry, the specially adapted SEMI-PV standard ensures a smooth connection. FabLink® also supports the SEMI-A3 standard for reliable communication on the shop floor in PCB production.

Your benefits with FabLink®

- › SEMI-compliant solution with about 20,000 installations worldwide
- › Support of SECS/GEM, GEM300, PV2, SEMI A3 and EDA (Interface A) in one solution
- › Minimal development effort for equipment manufacturers
- › Time savings thanks to prepared SEMI documentation
- › Comprehensive support in evaluating and responding to end customer specifications
- › Continuous product development and regular updates

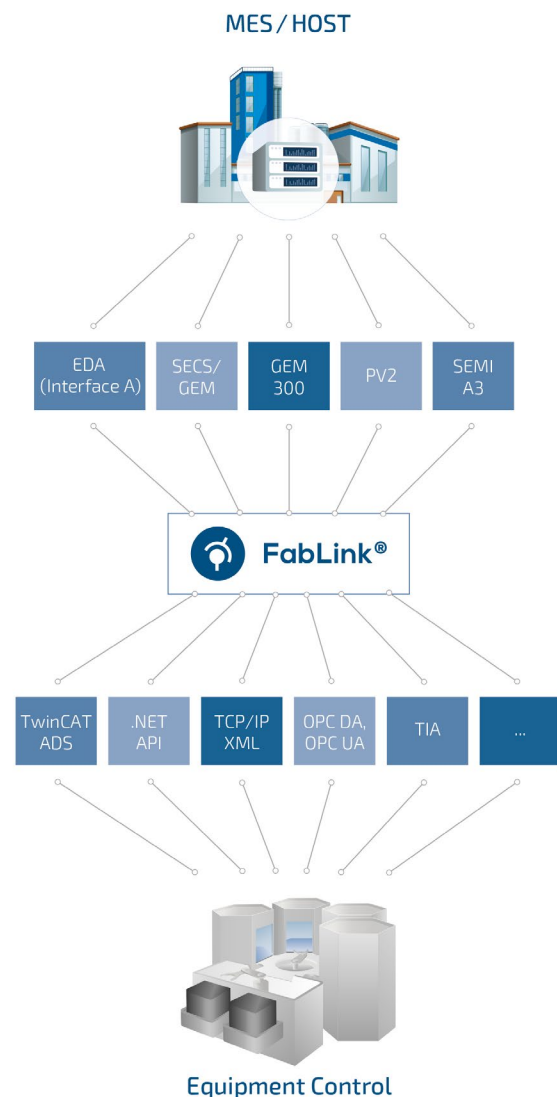
Features

- ✓ SEMI-compliant SECS/GEM and GEM300 implementation
- ✓ Support of additional GEM functions, e.g.
 - › Spooling
 - › Limits Monitoring
 - › Terminal Service
- ✓ SEMI-compliant EDA (Interface A) implementation
- ✓ FabLink® Designer

With the integrated FabLink® Designer, you can configure the SECS/GEM interface of your equipment series quickly and easily. The export function of the FabLink® Designer provides a prepared interface documentation (GEM manual) in open file format, which can be edited and passed on directly to the fab operator. This saves you valuable time and ensures a transparent process.

- ✓ 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.





Libraries and Protocols

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



FabLink® Designer

Simple configuration and creation of SEMI documentation



Time-to-Market

Quick and easy implementation of SECS/GEM interfaces

Supported SEMI standards

SECS/GEM

- › E05 - SECS II
- › E30 - GEM
- › E37 - HSMS
- › Documentation

GEM300

- › E39 - Object Service
- › E40 - Processing Management
- › E87 - Carrier Management
- › E90 - Substrate Tracking
- › E94 - Control Job Management
- › E116 - Equipment Performance Tracking

SEMI A3

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

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

PV2

- › Guide for PV Equipment Communication Interfaces (PVECI)

Common Standards

- › E148 - Time Synchronization and TS-Clock
- › E167 - Specification for Equipment Energy Saving Mode Communications (EESM)
- › E172 - SECS Equipment Data Dictionary (SEDD)

Cybersecurity

- › E187 - Cybersecurity of Fab Equipment
- › E188 - Malware Free Equipment Integration
- › E191 - Computing Device Cybersecurity Status Reporting

The implementation of further standards (e.g. E82, E88, E142) using FabLink® can be realized by individual adaptations.

Our service for your SEMI-compliant equipment integration

Training, requirements analysis, consulting, implementation, commissioning and support. For the integration of your equipment and the implementation of a SECS/GEM interface, select the services you need from our extensive portfolio of consulting and support. Our comprehensive trainings also enable you to configure additional SECS/GEM interfaces yourself in order to implement your individual requirements independently.

Kontron AIS GmbH

Kontron AIS GmbH has been setting benchmarks in industrial software development for over 35 years. An experienced team of more than 250 employees stands for proven software products and customized digitalization solutions. This enables equipment manufacturers as well as factory operators to break new ground in automation and secure long-term competitive advantages. Together with its customers, Kontron AIS implements intelligent digitalization strategies worldwide, paving the way for the smart manufacturing of tomorrow.

As a subsidiary of Kontron AG, Kontron AIS provides comprehensive IoT solutions from a single source, covering both hardware and software. A global network ensures project management, service and support on a global scale.



Software Development



Consulting and Requirement Engineering



Supply of Hardware for Control and IT Systems



Project Management and Training



On-Site Installation and Commissioning



Flexible, Global Service and Support

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