

SEMI-COMPLIANT CONNECTIVITY FABLINK® – THE EASY WAY TO A SECS/GEM INTERFACE



Image Source: Infineon Technologies AG

FabLink® is your standards-compliant connectivity package for SECS/GEM interfaces for the vertical integration of production equipment in a factory. **FabLink®** enables you to implement the extensive standard requirements very quickly and in compliance with the SEMI Generic Equipment Model (GEM) standard. Based on a SECS/GEM interface, you can integrate your machine into semiconductor, PCB, LED, flat panel and OLED factories. Integration into photovoltaic factories takes place with the SEMI PV standard, as an adapted variant for the photovoltaic industry. With the SEMI A3 standard, shop floor communication in PCB manufacturing succeeds.



LIBRARIES & PROTOCOLS

For equipment control,
e.g. Siemens, Beckhoff,
Mitsubishi or APIs (C#, NET, COM)
OPC-UA, ...



FABLINK® DESIGNER

Easy configuration and
automatic creation of
SEMI documentation



TIME TO MARKET

Fast and easy
implementation of
SECS/GEM interfaces

YOUR BENEFITS

- ▶ Fully SEMI compliant solution
- ▶ SECS/GEM, PV02, GEM300, SEMI A3 and Interface A (EDA) support in one solution
- ▶ Reduced development effort for equipment suppliers
- ▶ Time savings due to automated SEMI documentation
- ▶ Support and individual extensions by Kontron AIS



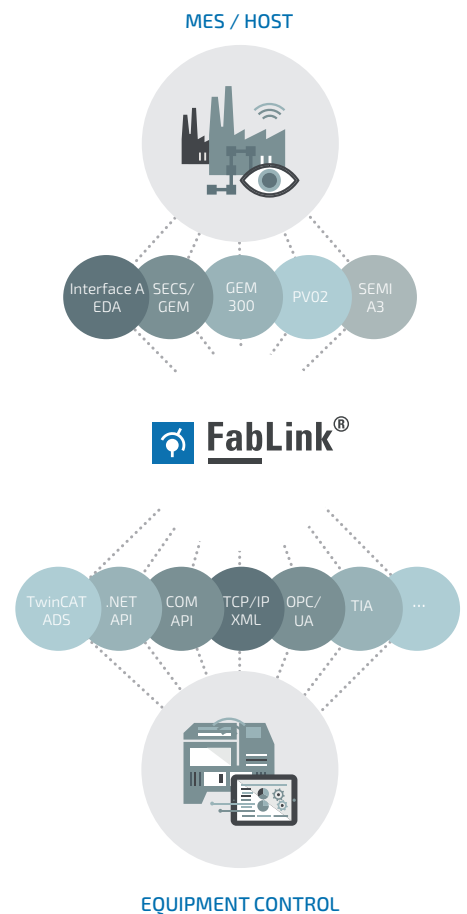
FEATURES

- ✓ SEMI-COMPLIANT SECS/GEM IMPLEMENTATION
- ✓ IMPLEMENTATION OF ALL GEM BASIC REQUIREMENTS
- ✓ SUPPORT OF ALL ADDITIONAL GEM FUNCTIONS
 - ▶ Spooling
 - ▶ Limits Monitoring
 - ▶ Terminal Services
 - ▶ Interface A (EDA)
- ✓ FABLINK® DESIGNER

The **FabLink®** Designer is an integrated module for easy and clearly laid-out configuration of the SECS/GEM interface for your machine controls. You can also create an extensive interface documentation (GEM manual) with just a few clicks.

- ✓ SIMPLE CONNECTION OF YOUR MACHINES

Use proven APIs (C#.NET, COM) to connect your high-level language application or connect your machine to **FabLink®** using TCP/IP XML, OPC and OPC-UA (upcoming). **FabLink®** also supports the integration of PLCs from Siemens, Beckhoff and Mitsubishi with ready-made libraries.



SUPPORTED SEMI STANDARDS

SECS/GEM

- ▶ E04 SECS I
- ▶ E05 SECS II
- ▶ E30 GEM
- ▶ E37 HSMS
- ▶ E167- Specification for Equipment Energy Saving Mode Communications (EESM)
- ▶ Documentation

GEM300

- ▶ E39 Object Service
- ▶ E40 Processing Management
- ▶ E87 Carrier Management
- ▶ E90 Substrate Tracking
- ▶ E94 Control Jobs
- ▶ 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

- ▶ E05 SECS II
- ▶ E30 GEM
- ▶ E37 HSMS
- ▶ Network Time Synchronization via NTP

SERVICES PROVIDED BY KONTRON AIS

For the integration of your machine and the implementation of a SECS/GEM interface you can choose from our extensive portfolio of support services the one that suits you best.

Our comprehensive training courses also enable you to configure further SECS/GEM interfaces yourself and thus implement your individual requirements.



EQUIPMENTCLOUD® INTEGRATION

The **EquipmentCloud®** is the IIoT platform for service and after-sales in medium-sized mechanical and system engineering. FabLink provides out of the box an integration into the **EquipmentCloud®** for equipment and performance monitoring.



CONSULTING
& REQUIREMENT ENGINEERING



PROJECT MANAGEMENT &
TRAINING



SOFTWARE DEVELOPMENT



FLEXIBLE, GLOBAL SERVICE &
SUPPORT



SUPPLY OF HARDWARE FOR
CONTROL & IT SYSTEMS



ON-SITE INSTALLATION &
COMMISSIONING



KONTRON AIS GMBH

We set the benchmark in industrial software. For more than 30 years and with a growing team of 190 employees, we have been providing solutions for machine and plant manufacturers as well as factory operators to break new ground in automation and thereby substantially reduce costs. Together with our customers, we develop concepts for smart manufacturing and Industry 4.0, helping to implement intelligent digitization strategies successfully.

As part of the Kontron Division in the S&T Group, we offer integrated concepts for control & IoT hardware as well as project management, service and support through a global network of regional centers.

Being specialists on industrial automation, we offer far-reaching expertise on PLC platforms, robot applications and process control systems and will support you through all stages of concept, development and service.