



#### FEATURES

- Advanced Technologies ( .NET & XML )
- Support SECS-I & HSMS Protocol
- Always Fundamentally GEM Compliant
- Built-in Additional GEM Capabilities
- Configurable SECS / GEM Variables
- Programmable SECS Messages
- Tight Integration via .NET Control
- Superb SECS Messaging Throughput
- Full SECS Logging and Traceability

## SECS DRIVER

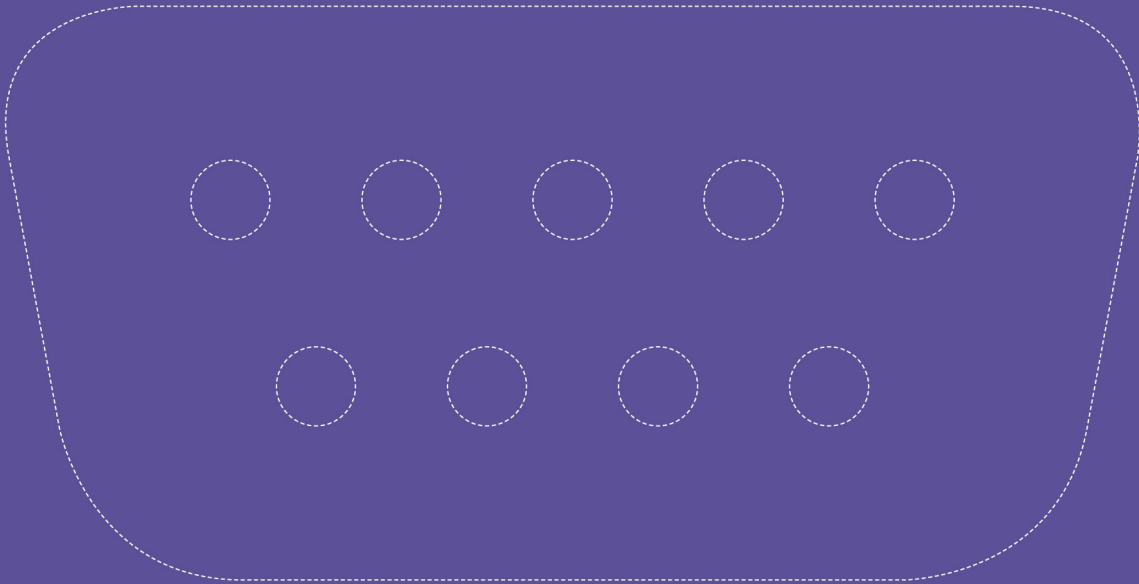
### SECS Communication Driver ( SEMI Standards E4, E5, E30 & E37.1 )

X-PORT is a software driver that can be configured to add SECS /GEM capabilities to an equipment. It is designed to run quietly in the background while maintaining full SECS logging for the purpose of traceability.

X-PORT 's behaviour is controlled by XML-based configuration files through the selection of specific SECS/GEM functionalities to be implemented; definition of associated variables, alarms, terminals and parameters; linking of variables to reports; and linking of reports to events.

Deploying the configured GEM-compliant equipment is then simply a matter of feeding appropriate data into the variables defined in X-PORT ( via API calls provided in the .NET GEM control ) for communication with the host computer.





## Specifications

### Installation Requirements

- Windows XP Professional with .NET 2.0 ; 512MB RAM ( minimum )
- Windows 7 Professional ; 2GB RAM ( minimum )

### SEMI Standards Compliance

X-PORT adheres strictly to the following SEMI standards:

- SEMI E4 : SEMI Equipment Communications Standards 1 Message Transfer ( SECS-I )
- SEMI E37.1 : High-speed SECS Message Service Single Selected-Session Mode ( HSMS-SS )
- SEMI E5 : SEMI Equipment Communications Standards 2 Message Content ( SECS-II )
- SEMI E30 : Generic Model for Communications and Control of Manufacturing Equipment ( GEM )

### Software Functionalities ( configurable with X-CHANGE )

- SECS-I or HSMS communication protocol
- Fundamental GEM scenarios
- Status Variables ( SV ) ; Equipment Constants ( EC ) ; Discrete Variable Values ( DWVAL )
- Collection Events ; Reports
- Alarms; Spooling ; Terminal Services ; Trace Management
- Process Program Management ; Remote Control ( Remote Commands )
- Limit Monitoring ( with some additional programming )
- Non-GEM Stream Functions

### Equipment Controller Interface

- Programming of a .NET user application ( on the same PC that X-PORT is installed )
- Handling of SECS Messages for:
  - .NET Callback Event ( covering Communication/Control Statuses )
  - Terminal Messages & Remote Commands from Host
- Feeding of equipment data to X-PORT via API calls such as SetSV(), SetEC() and SetDV()

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