

Bring your Unconnected Data Into Industry 4.0

SOLUTION BRIEF

Scalable Data Extractor and M2M Enabler Breathes New Life into Legacy Devices with Minimal Investment

Connectivity is the first fundamental requirement in Smart Manufacturing development. It allows important information to be identified, collected, and used to monitor operations, anticipate malfunction, and gauge efficiency, among many other critical tasks.

ADLINK's DEX-100 edge IoT solution acquires and manages critical performance data from virtually any device in your system, creating value for both OT and IT requirements.

Common Scalable Interface

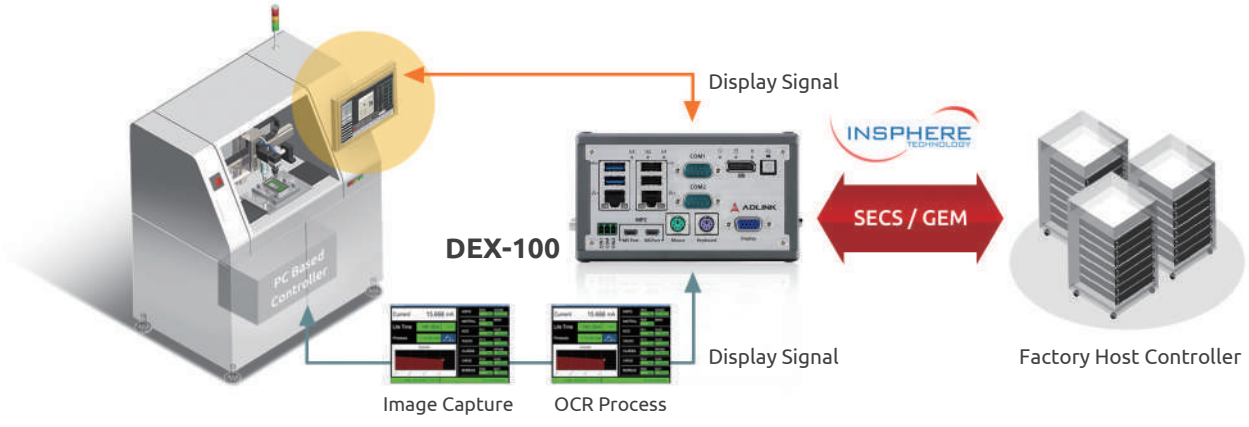
- One solution for all machine types, converge all the fragmented extraction methods into a universal method – The Optical Character Recognition (OCR)
- OS Independent and support even to the oldest OS like DOS, Win 3.1

Efficient Machine to Machine Connectivity

- Manpower shortage issues resolved with remote monitoring and remote control capability, with the previously unconnected device now able to interface with newer machines
- Seamlessly transforms legacy machines into SECS/GEM compliance

Non-Intrusive System Architecture

- Display content is output from the machine without affecting machine performance or stability
- No additional program installation required



Real-time Information

Captures and updates operating machine real-time information

Condition-Based Maintenance

Economical, practical, non-intrusive full-machine coverage

New Features Extension

New features extension seamlessly supports legacy machines

Easy to Learn

Programming by configuration allows engineer access within days

ADLINK® Leading EDGE COMPUTING

www.adlinktech.com

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

INSPHERE TECHNOLOGY

Factory Automation for Legacy Equipment through SECS/GEM

INSPHERE's SecsToDEX.Net, teamed with the ADLINK DEX-100, presents a revolutionary solution transforming non-connected legacy manufacturing assets into smart, ready-to-automate SECS/GEM-enabled machines. Built-in intelligent OCR engines and input controls (mouse and keyboard) fully support capture and automation of any machine data available through HMI or user interface, for instant communication with the factory host via SECS/GEM.

Opens up Endless Possibilities for your Factory

Data Collection
Event notification (S6F11/F12) of data changes

Alarm Management
Alarm set/clear activity monitoring via S5F1/F2

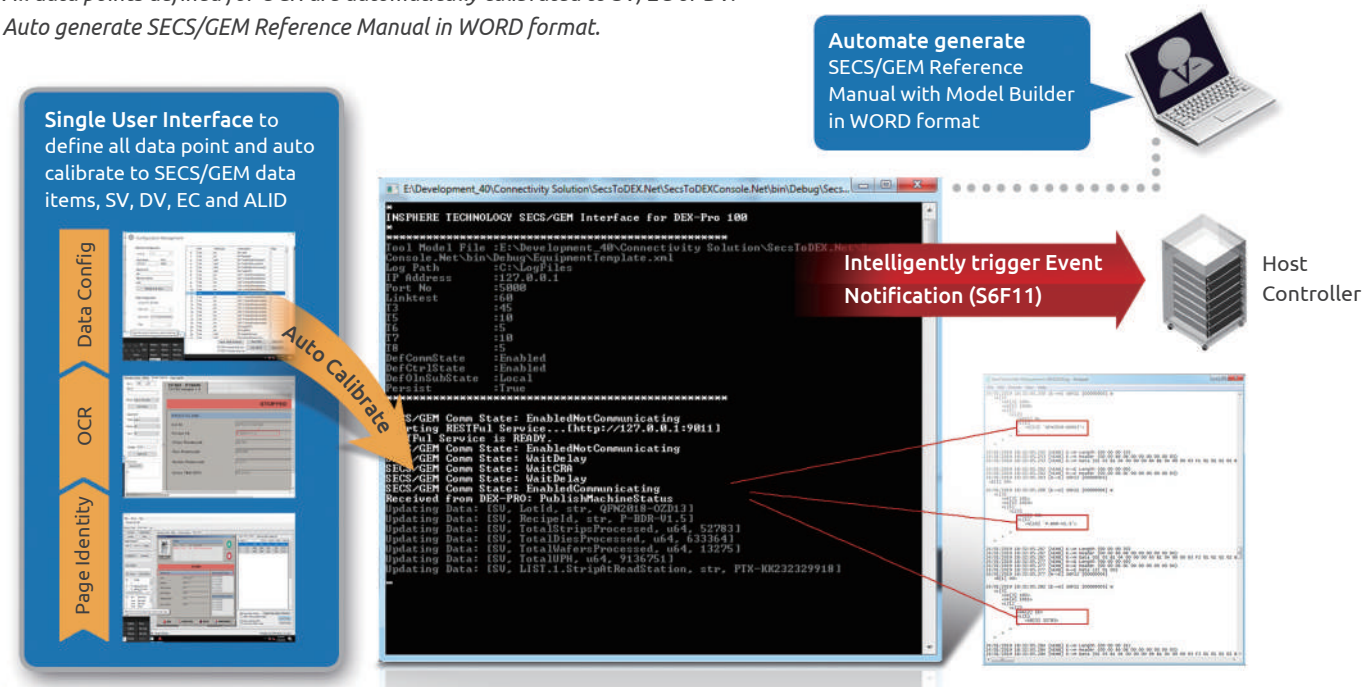
Limit Monitoring
Alerts when critical data passes designated thresholds

Recipe Control
Lot/Recipe validation to reduce processing errors

Automation
Automated recipe loading, lot start, and equipment stop with S2F41/F42

Seamless SECS/GEM Communication

- *Fully compliant with SEMI E37 (HSMS), SEMI E5 (SECS-II) and SEMI E30 (GEM)*
- *Support capabilities such as Spooling, Trace Data Collection, Variable Data Collection, Status Data Collection, Event Notification, Dynamic Event Report and Alarm Management.*
- *All data points defined for OCR are automatically calibrated to SV, EC or DV.*
- *Auto generate SECS/GEM Reference Manual in WORD format.*



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