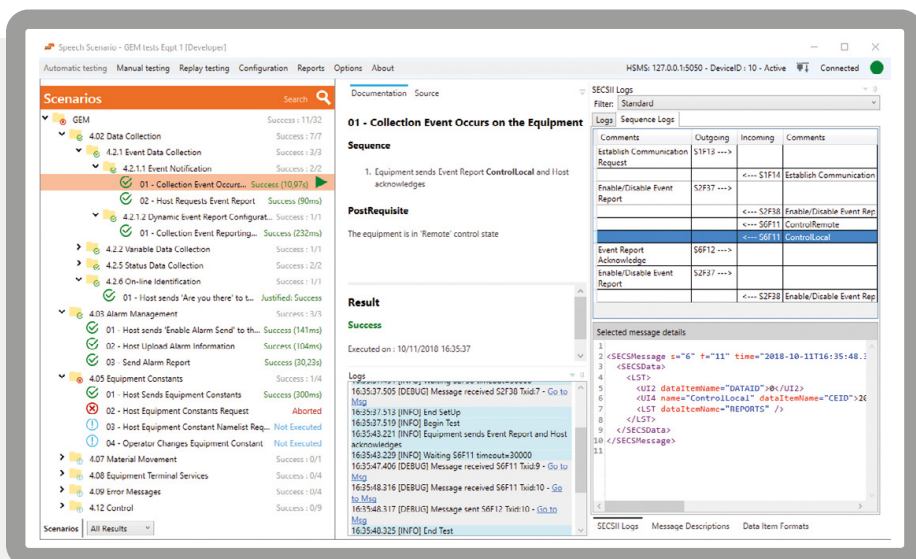# SPEECH Scenario

SPEECH SCENARIO
SECS-II Host Or Equipment Simulator

Industry 4.0

Proven equipment software quality !

› **Simulate the factory host or the equipment**
› **Automatically validate SECS/GEM interface prior to shipment**
› **Improve overall equipment software quality**
› **Be confident in software modifications**
› **Ready for continuous integration**

Features

› Receive and send any SECS-II-compliant message (including E40, E94, E87 etc.)
› Manual mode, automatic mode and replay mode
› Auto-document SECS-II logs with variable/event names thanks to SEMI E-172 (SECS Equipment Data Dictionary)
› Benefit from standard scenarios
› Write your own testing scenarios in C#
› Benefit from a powerful API to manage synchronous/asynchronous messages
› Provide logs in SMN (E173 SEMI standard) or SML
› Create reports in PDF format and NUnit3 test result XML format
› Console mode to automate regression testing on a build server (like Jenkins)

Technical details

› Native .Net application
› Based on Agileo Automation's field-proven SECS-II and HSMS drivers
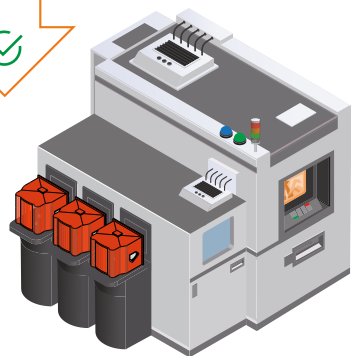› Run on Microsoft® Windows® 10 and Microsoft® Windows® 11

SPEECH Scenario

Supported SEMI standards
E4 SECS-I (serial protocol)
E37 HSMS-SS (ethernet protocol)
E5 SECS-II
E173 SECS-II message notation

AGILEO Automation

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6 Impasse d'Helsinki - 82000 MONTAUBAN
Tel : +33 5 49 49 61 79 - contact@agileo.com - FRANCE
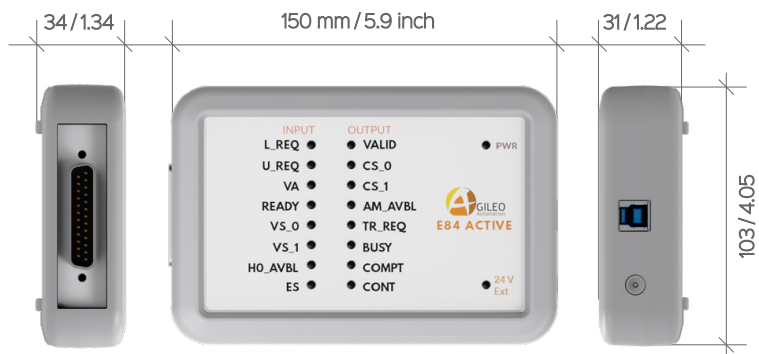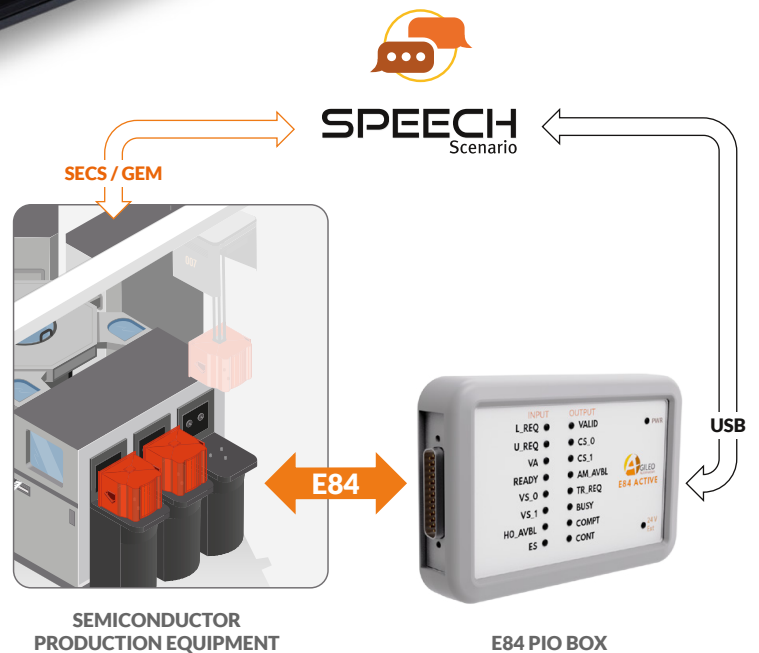
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E84 PIO BOX

Interface Between Speech Scenario And E84 Passive Equipment

Industry **4.0**

SPEECH Scenario

SECS / GEM

USB

SEMICONDUCTOR PRODUCTION EQUIPMENT

E84

E84 PIO BOX

Features

› Directly connects to load ports
  › Equipped with a DB25 connector for straightforward integration with E84 passive systems such as load ports
› Simple connection to PC via USB
  › USB-powered device with a direct connection to the PC
› Compact, lightweight design
  › Only 280g (0.62 lb): Easy to carry and use in cleanrooms
› Two comprehensive test plans
  › E84 compliance test: Ensures accurate validation of E84 communication interfaces
  › GEM300 AMHS compliance test: Verifies the combined use of E84 with E87, ensuring full compliance with automatic carrier delivery
› Also available for active equipment tests

34 / 1.34   150 mm / 5.9 inch   31 / 1.22

103 / 4.05

INPUT	OUTPUT
L_REQ	VALID
U_REQ	CS_0
VA	CS_1
READY	AM_AVBL
VS_0	TR_REQ
VS_1	BUSY
HO_AVBL	COMPT
ES	CONT

PWR

E84 ACTIVE

24 V Ext

Technical data are given for information only and are subject to change without notice

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