

OPCENTER EXECUTION ELECTRONICS

Improves Productivity and Product Quality in PCB Assembly

Siemens Opcenter Execution Electronics is a complete, easy-to-use, and digital-enterprise-ready manufacturing execution system (MES) for PCB Assembly that provides stellar scalability, performance, and configurability for global PCB and box-build operations.

It is based on direct connectivity to machines and production lines and includes manufacturing execution, quality management, planning and scheduling, material management, and manufacturing intelligence.

Why Choose Opcenter Execution Electronics?

Build products right the first time

With seamless integration with PLM solutions, Siemens Opcenter Execution Electronics accelerates new product introduction (NPI) and change management activities while ensuring as-designed manufacturing processes with paperless operations.

Manage shop floor complexity and improve efficiency

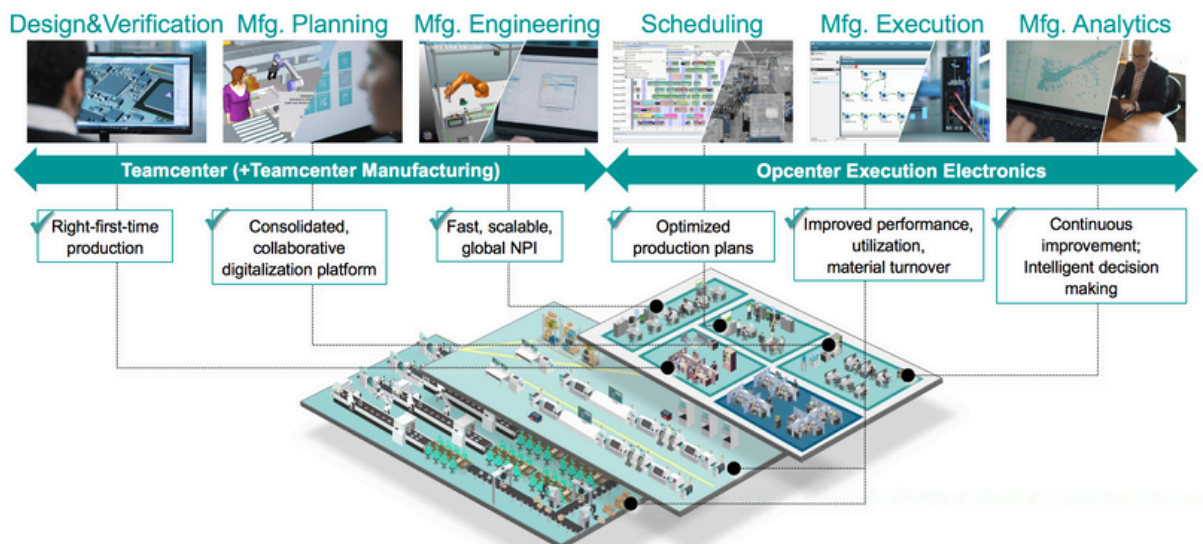
The standardized, high-performance, and user-friendly functionalities optimize the use of materials, equipment, processes, and operators. They provide full traceability and easy access to as-built data in a single production execution and OOTB solution for PCBA and box-build processes.

Optimize production capacity

Provides an OOTB, advanced scheduling solution that allows PCB and box-build manufacturers to generate optimized and detailed production plans and schedules to efficiently balance demand and capacity across surface-mount technology (SMT), mechanical, and assembly lines in just one solution.

Best-in-class MES capabilities in one solution

Provides the basis for adopting Smart Manufacturing and Industry 4.0 strategies, supporting the entire product lifecycle from managing production workflows and providing operator guidance, advanced electronic work instructions (EWIs), and quality inspection tools to complete traceability of operations and material.



Build products right the first time

With seamless integration with PLM solutions like Siemens Opcenter Execution Electronics Process Prep, Siemens Opcenter Execution Electronics accelerates new product introduction (NPI) and change management activities, while ensuring as-designed manufacturing processes with paperless operations. Each potential design or engineering issue identified on the shop floor is efficiently managed with closed-loop feedback to the PLM system. With the integrated Siemens Opcenter Execution Electronics, PCB and box-build manufacturers implement streamlined NPI processes and establish flexible operations

to support product changes and early improvements.

This includes:

- Intelligent NPI data import from Siemens Opcenter Execution Electronics Process Prep and out-of-the-box (OOTB) manufacturing workflows management
- Serial number management for PCB and panels
- Integration with labeling machines and label printers
- Manufacturing dispatching and visibility

Manage shop floor complexity and improve efficiency

Siemens Opcenter Execution Electronics combines best-in-class and OOTB manufacturing execution capabilities for PCB and box-build processes in just one solution. The standardized, high-performance and user-friendly functionalities in Siemens Opcenter Execution Electronics enable material, equipment, processes and operators to be used as defined by the engineering department, and provides full traceability and easy access to as-built data. Electronics manufacturers can benefit from improved management of shop floor complexity, while enhancing efficiency levels and reducing trainings and main-tenance costs, including:

- Shop floor documentation and EWI
- Statistical process control (SPC) and pass/fail in-quality tests
- Automated optical inspections (AOI) with graphical defect logging
- Guided repair actions and repair support
- Smart scanning, auto recognition
- Efficient shop floor data collection and automation layer control
- Genealogy recording and complete manufacturing traceability
- OOTB and custom operational reports: work-in-process (WIP), defects and production quality, component traceability and serial number genealogy

