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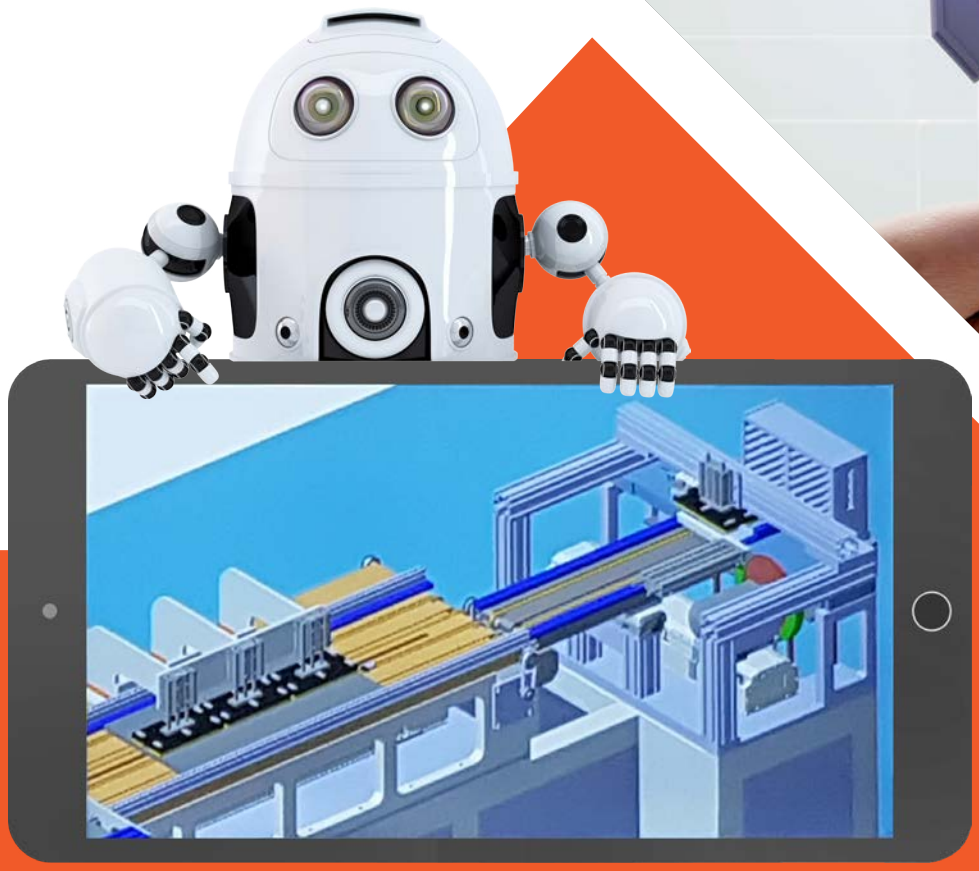
SMART FACTORY
SOLUTION

Leaflet Ver.1



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INDY
Collaborative Robot

- 2016. 10. Research platform Indy-RP first announcement
- 2017. 03. Industrial Platform Indy announced on 3/5/10
- 2017. 09. Indy7 announcement, SW Framework v.2.0 application

Cooperative Robot Indy is a robot that guarantees safety based on innovative algorithms.
It is a low-cost, high-efficiency cooperative robot that can respond sensitively to the force intended by the person through impedance control and can prevent accident and injuries during operation by detecting collision by algorithm technology without sensor for unintentional collision.

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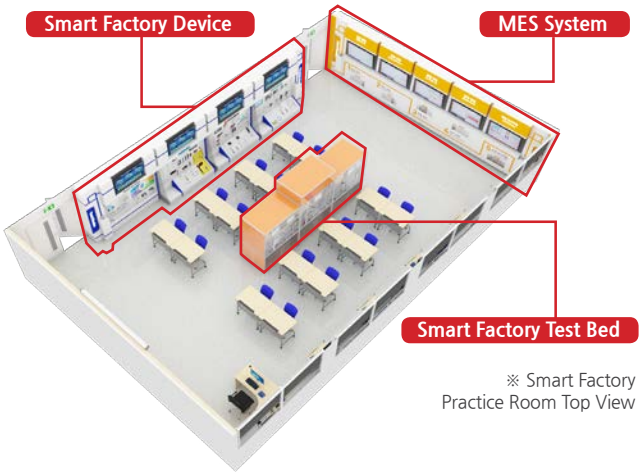
Industry 4.0_Gyeongbuk Creative Economic Innovation Center Smart Factory Academy

SMART FACTORY ACADEMY

Smartphone battery assembly / Disassembly system



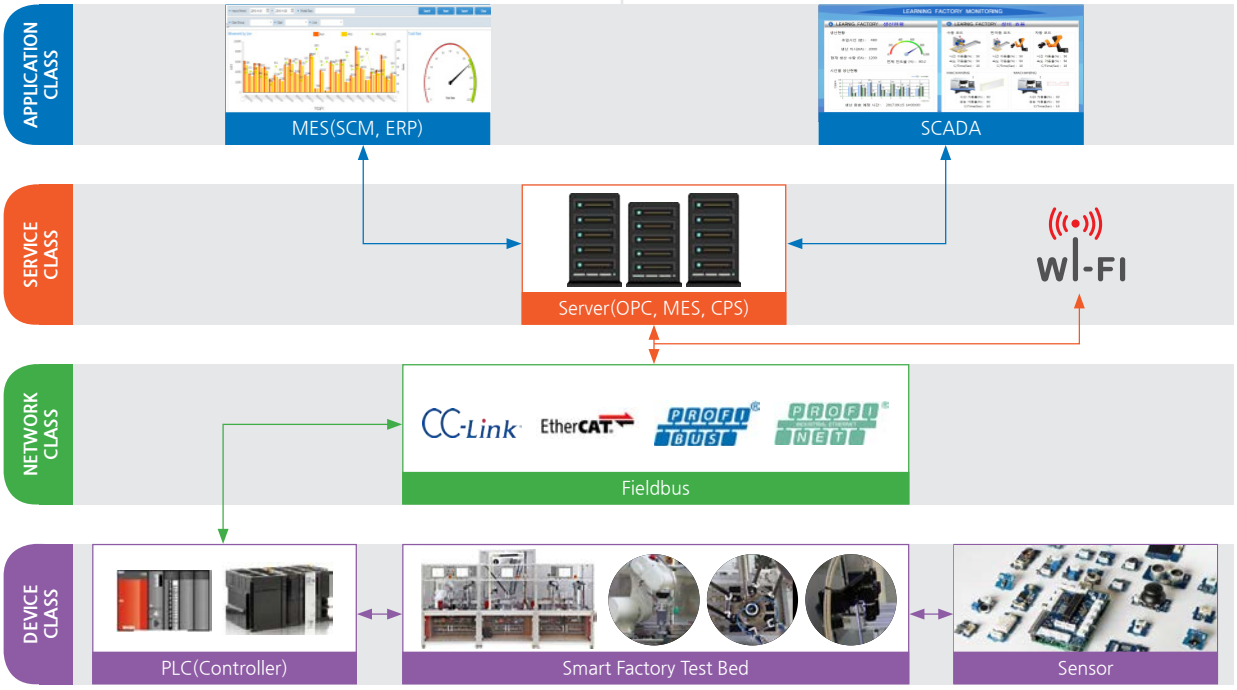
※ Smart Factory
Practice Room Top View

① Pallet transfer (Material supply) → ② RFID Tag Data WR. → ③ Primary assembly (Delta robot) → ④ First inspection (Vision)

⑤ Secondary assembly (Cover assembly) → ⑥ Secondary inspection (Vision) → ⑦ Robot transfer → ⑧ RFID Tag Data RD

⑨ Disassemble and transport the first complete product → ⑩ Disassembly and transfer of 2nd complete product → ⑪ Pallet transport → ⑫ Palette Waiting

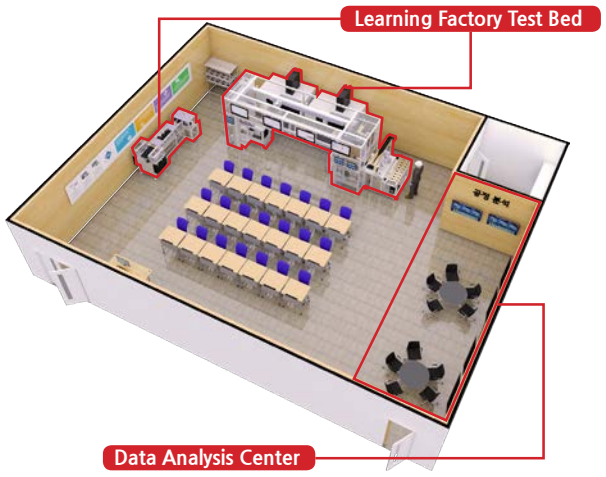
Product production line Product decomposition process line



Industry 4.0_Small & Medium Industry Promotion Corporation Running Factory

LEARNING FACTORY

Desktop Clock Processing / Assembly System

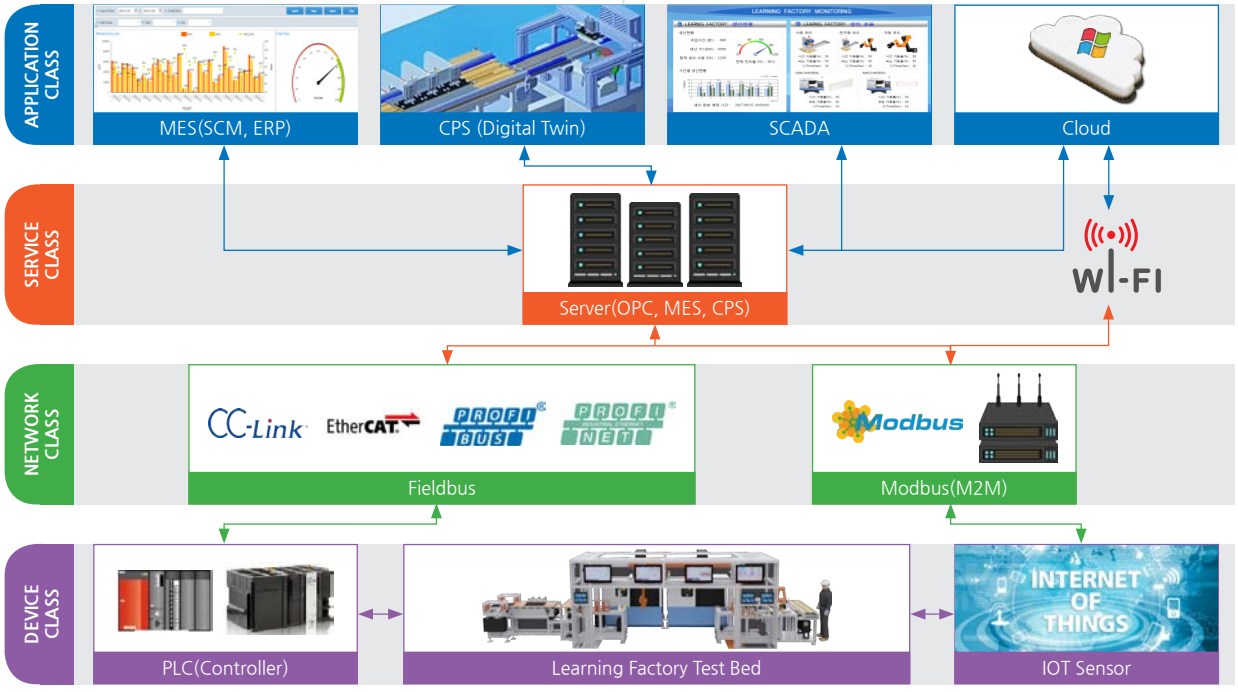


① Conveyor transport (Material supply) » ② Raw material cutting (Horizontal / Vertical) » ③ Vision 1st inspection (Good / Defective) » ④ Storage warehouse (Good / Defective)

⑤ MCT processing (Clock / Pedestal) « ⑥ Transfer robot « ⑦ Storage warehouse (Finished product) « ⑧ Vision secondary inspection (Plane / Side)

⑨ Defective product discharge (Conveyor) » ⑩ Co2 Laser Printing » ⑪ Assembly and delivery (Collaborative Robot) » ⑫ Two-stage loading of the finished product (Linear Pusher)

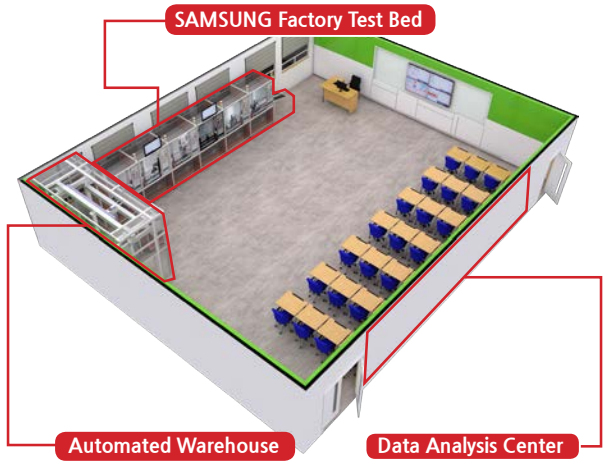
Product production line Product delivery process line



Industry 4.0_ Samsung Smart Factory

SAMSUNG ACADEMY

PCB assembly / Inspection system

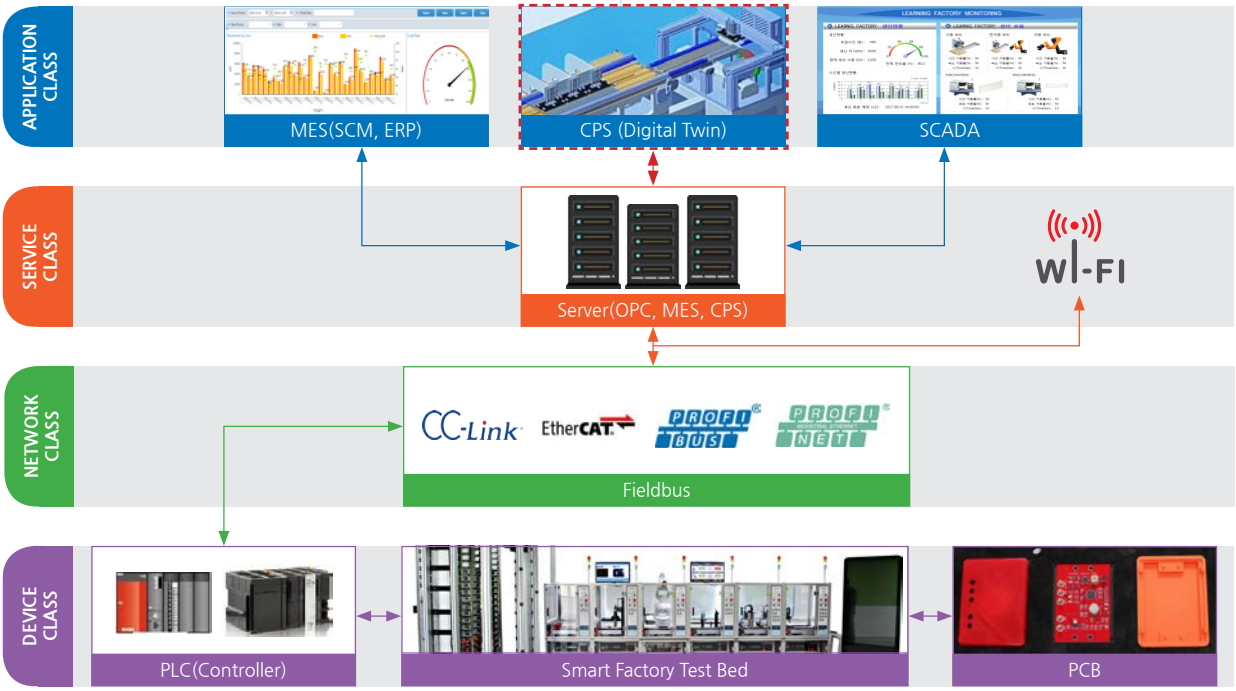


① Automatic warehouse (Material storage) » ② Pallet transfer (Material supply) » ③ RFID Read » ④ Product function check (Data server transmission)

⑤ First inspection (Vision) « ⑥ Primary assembly (Vertical multi-joint robot) « ⑦ BCB transport (Upper case) « ⑧ Secondary inspection (Vision)

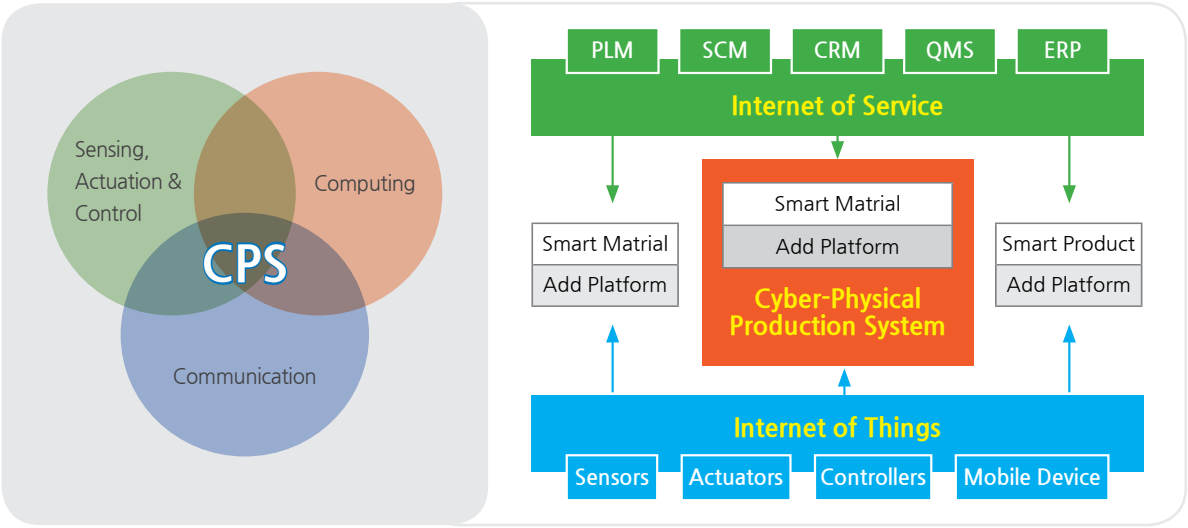
⑧ Secondary inspection (Vision) → ⑨ PCB defect inspection » ⑩ Labeler (Labeling by model) » ⑪ Pallet transfer (Finished product) » ⑫ AGV Automatic warehouse loading (Defective completed)

Product production line Product delivery process line

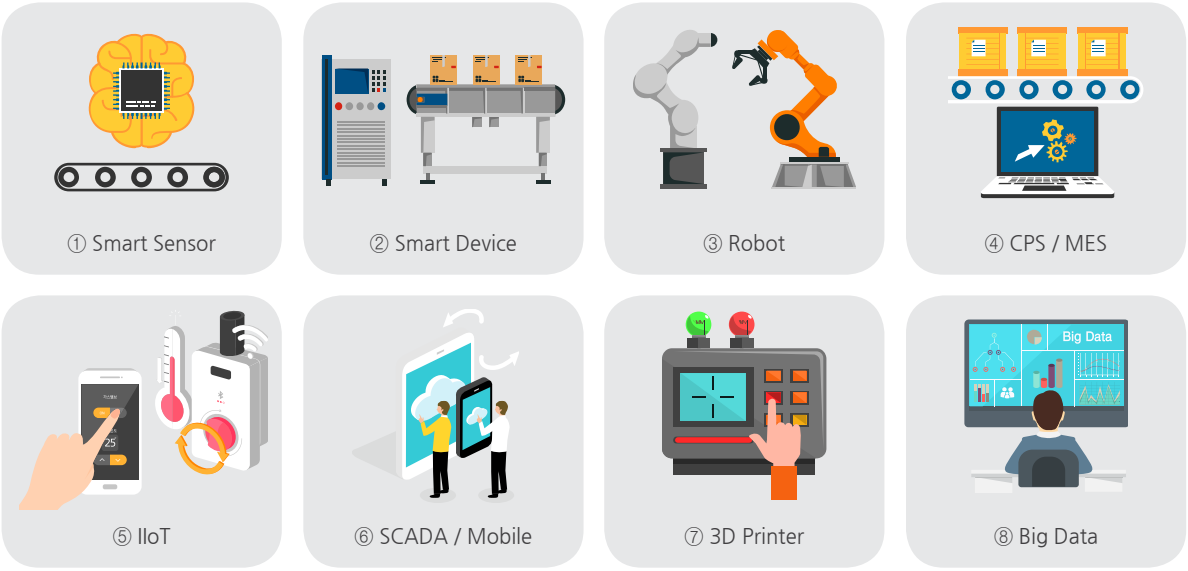


IEG Smart Factory Solution

▶Convergence Technology



▶IEG Smart Factory Skills



※ The specifications and appearance of this leaflet are subject to change without prior notice.

Innovative Education Group
IEG Co.,Ltd.

13207 15F 1505, Tech-dong, SKn Techno Park, 124 Sagimakgol-ro,
Jungwon-gu, Seongnam City, Gyeonggi Province, Korea.
TEL : +82 31-698-2200 FAX : +82 31-776-4448 WEB : www.ieg.kr