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BK Electronics

BK ELECTRONICS

OEM·ODM OF ELECTRONICS

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BK
ELECTRONICS

1. Greetings

Welcome to BK Electronics, leading electronics manufacturing service provider in Korea. With nearly 40 years of experience, we have established ourselves as a trusted partner to companies of all sizes, industries and countries.

Our humble beginnings started as an artwork design company in 1987, and we gradually grew into a one-stop service company. Today, we successfully manufacture products in medical, industrial, defense, and energy spheres.

At BK Electronics, we take pride in our commitment to innovation, quality, and customer satisfaction. Our state-of-the-art facilities, advanced technology, and highly skilled workforce enable us to deliver exceptional solutions that exceed our customers' expectations.

Almost 4 decades of experience have taught us the importance of building strong relationships with our customers. We understand that each client is unique and requires tailored solutions to meet their specific needs.

As we continue to grow and expand our capabilities, we remain committed to delivering exceptional service and driving success for our customers. We believe that by staying ahead of the curve, we can help our customers achieve their goals and drive growth in their industries.

Thank you for considering BK Electronics as your partner in electronic manufacturing. We look forward to serving you and working together to achieve success.

2. Company Overview

Company	BK Electronics Co., Ltd.	Establishment	1987. 04. 25
Business Area	Electronics manufacturing		



Affiliates

K101 Co.,Ltd.



Location Anyang, Korea
Area 30,000m²

Overseas subsidiaries

Best BK Electronics Co.,Ltd(Vietnam)



Location Hanoi, Vietnam
Area 15,000m²

1. Artwork

CAD department includes a team of skilled professionals with decades of experience in various software, including Cadstar, Pads, Altium, Mentor, etc.

3. IMT

PCBA line includes leaded and lead free IMT lines, compliant with RoHS guidelines while ensuring reliability and quality of assembled PCBs

5. Set Ass'y

We assemble PCB, harness, and full sets with a focus on accountability and uninterrupted assembly process, with each staff assembling a set from beginning to end



2. SMT

Production line is equipped with fully-automated and fast-moving SMT lines with advanced machinery to ensure precision mounting, efficient production, and greater capacity

4. Harness

Our in-house harness assembly and functionality testing ensures quality, reliability and maximum efficiency of harness for turnkey projects

6. Testing

Using advanced testing equipment, we perform functional testing and in-circuit testing to ensure all products meet the highest standards of quality and reliability

1. R&D

BK Electronics has established and is operating a company-affiliated R&D center. A total of 15 researchers in 3 departments provide services in all areas, from circuit board design and development to hardware and software development.

BK Electronics R&D center is currently carrying out the Shin-Gori Units 5 and 6 Nuclear power plant project, as well as R&D activities in the development of in vitro diagnostic instruments.



No. of researchers : 15

1. DESIGN

Product external / internal
Aesthetics
User convenience
Optical performance

2. HW DEVELOPMENT

Mechanical
2D&3D development
Performance validation
Stability validation

3. SW DEVELOPMENT

Artwork
UI design
Application
Firmware

2. Strategic Purchasing

We are building a sustainable supply chain with four strategies: fair and transparent ethical management, enhanced purchasing competitiveness, ESG* purchasing, and shared growth (strengthening supply chain capabilities).



3. Manufacturing Technology



Competitive facilities for quality and productivity

3D CT (SEC), 3D AOI (MIRTEC), Ultra-precision/high-speed chip mounter (PANASONIC.)

Computerized production data management

Feedback on improvements to enhance quality and productivity after sample production

Customized production to meet customer needs

Development of new technologies and methods to meet specific customer needs

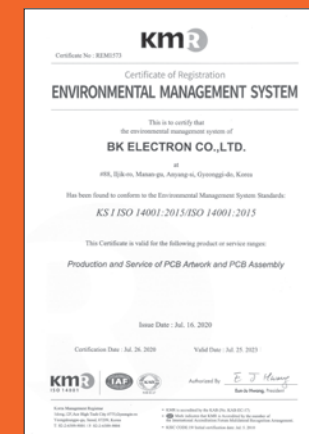
4. Quality Control

We focus all our capabilities to attain world-class quality and continuous improvement.

In order to uphold a systematic quality management system, BK Electronics maintains various certifications such as ISO 9001, ISO 14001, ISO 13485/GMP, KS Q 9100, IATF 16949, KEPIC-EN. Additionally, we adhere to international standards such as IPC-A-610, IPC/WHMA-A-620, IPC-7711/7722, J-STD-001 for manufacturing quality control.



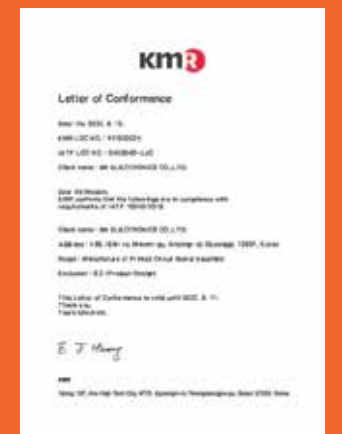
ISO9001



ISO-14001



ISO-13485



IATF16949



KS Q 9100



GMP



KEPIC-EN



IPC

1. Industrial

Capitalizing nearly 40 years of accumulated technology in EMS (Electronics Manufacturing Service), BK Electronics manufactures critical industrial products such as robots for automobile assembly lines, KTX MOTOR-BLOCK control, and semiconductor manufacturing equipment.



Major Projects

Industrial robot (SPOT/LCD), Inverter Gate/Vending machine/Token sorter
KTX2 Sancheonho (Motor block)

SMT mounter controller
Semiconductor inspection equipment
Welding gun controller

2. Medical

BK Electronics is a trusted contract manufacturer of various medical devices such as medical robots (spine surgery robots, rehabilitation robots), IVD devices (nucleic acid extraction system, HbA1c-CRP analyzer, rapid test kit reader), aesthetic equipment (skin laser equipment), X-ray, and optical equipment.



Major Projects

Spine surgery robots (OEM)
Rehabilitation robots(OEM)
Aesthetic laser equipment(OEM)

Glycated hemoglobin analyzer(ODM)
Quantitative rapid test kit reader(ODM)
Automatic nucleic acid extraction platform(ODM)

3. Defense

BK Electronics assembles high-precision and complex PCBs and harness in the field of defense, including precision-guided weapons, surveillance reconnaissance, satellites, and advanced weapon systems. We are a customer-focused manufacturer of defense products with AS9100 certification for aerospace industry.



Major Projects

Unmanned security system
Patriot power supply
Aircraft black box
Laptops (military)

Communication equipment for radios and vehicles
Guided missile speed converter
Guided missile control system
Satellite

4. Energy

With KEPIC certification, we are the leading developer and manufacturer of crucial industrial energy products from nuclear, thermal, solar, and wind power generators to plant controllers.



Major Projects

Nuclear power generation control system
Thermal power generation control system
Electric vehicle BMS

Solar PCS [100KW to 2.2MW]
Wind power control system [2 MW]