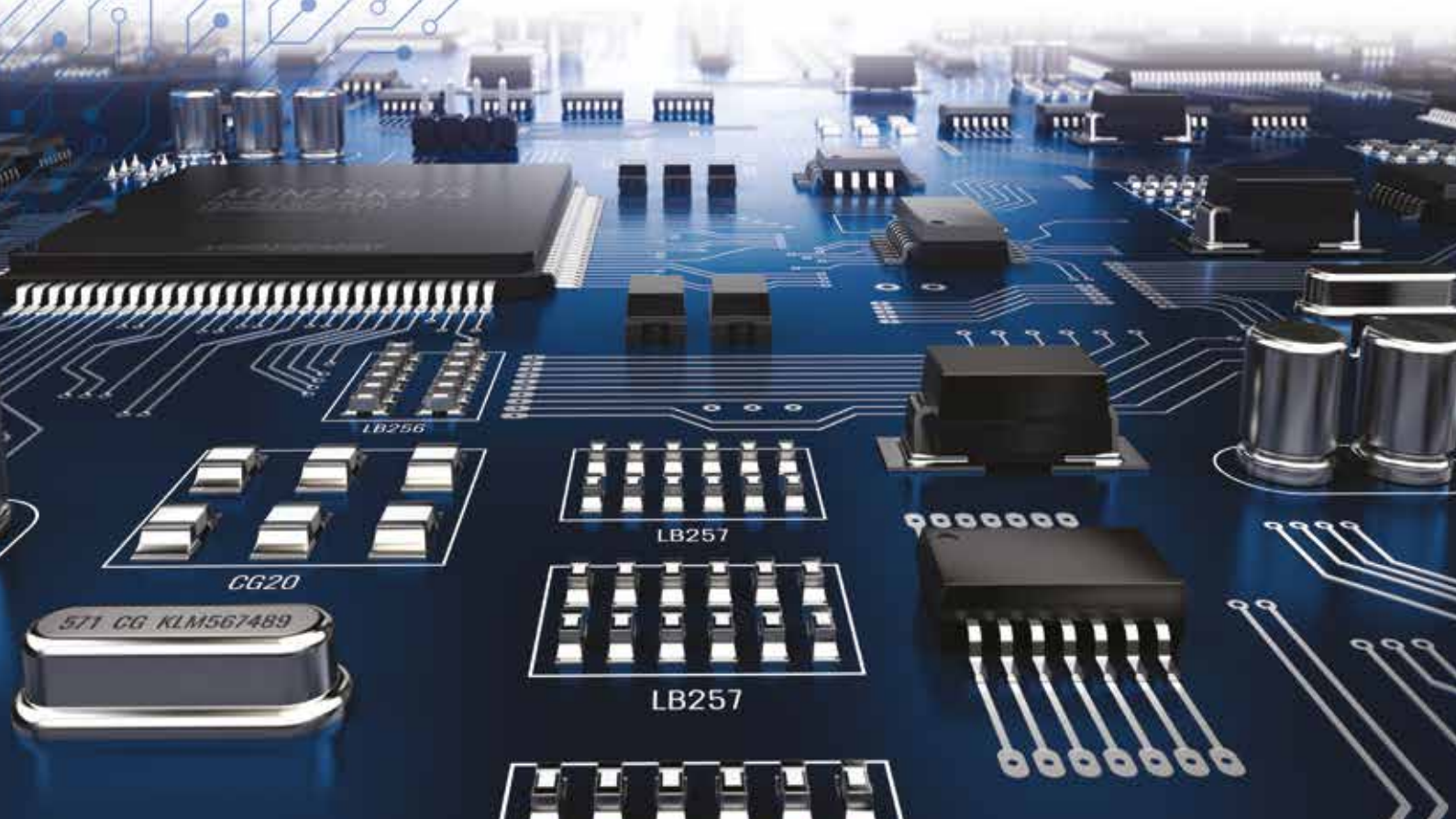


# alfanar

## ELECTRONICS ENGINEERING

Products Profile



النفار  
alfanar

[www.alfanar.com](http://www.alfanar.com)

## Introduction

**alfanar** is a Saudi company with a global presence that is primarily engaged in manufacturing and trading a wide variety of Low, Medium and High Voltage electrical products, in addition to energy and renewable solutions, oil and gas, water treatment, infrastructure, digital solutions, technical services, steel fabrications, and electronics engineering.

Established in 2008, alfanar Electronics Engineering, specializes in providing professional electronic manufacturing services to the commercial and industrial organizations whether in the public or private sectors.

alfanar products are designed and manufactured to conform to the latest international and national standards like IEC, BS, NEMA, and SASO, which signifies a commitment to the highest standards of quality, safety and performance.

Innovation, state-of-the-art technologies, and advanced engineering designs coupled with superior production facilities and a special team of technically qualified engineers and craftsmen ensure high quality, aesthetically finished products backed by our warranty and exceptional customer service.

## Products and Services

Our electronics engineering and field services portfolio includes the rendering of high-quality services such as electronic manufacturing services for printed circuit board assembly (PCBA), prototype development, tooling, reverse engineering, and testing services that comply with RoHS requirements and ISO Standards. Our strength lies in turning a design into an innovative and functionally engineered product.

### Engineering & Development

- Turnkey solutions
- Reverse engineering
- Electronics Engineering services
- Tooling , jigs, fixtures
- Compliance Testing

### PCB Assembly

- High-level customized and standard PCBA
- SMT Assembly
- Through-hole Assembly
- PCBA prototype development





## Sample of Products

At alfanar Electronics Engineering we manufacture a variety of products, from PCBAs, chargers, dimmers, indicators, wireless switches , ATSE ..etc.

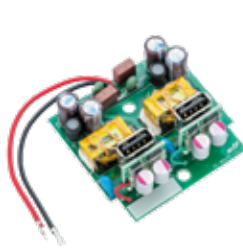
Our capacity to engineer, design, and manufacture innovative electronic products will cover your needs. Contact us to discuss your requirements, we're ready to help.



*Automation Transfer Switch (ATS)*



*Smart meter*



*2-Port 4.2A  
USB Charger*



*Card switch*



*Residual Current  
Device (RCD)*



*Musical Doorbell*

## Industries Served

With technological advancement, there is a requirement for a myriad of electronic applications. alfanar Electronics Engineering provides standard and custom-built PCBA's to suit varied applications. We are proud to serve the following industries:

• Home Automation / IOT



• Renewable Energy



• Telecommunication



• Lighting Industry



• Defense/Military



• Industrial sector



• Medical Industry



# Core Capabilities

## 1. Manufacturing Expertise

As a PCBA manufacturer and Electronics Manufacturing Services provider, our expertise in prototyping, tooling, electronic design, and parts assembly is under the direction of professional engineers and technicians.

To develop innovative solutions that add significant value to end products, we offer our customers the appropriate expertise:

- Expert engineers and designers
- High-quality and reliable components
- Lean production
- Conformance to CE, UL, RoHS and other standards
- Environmental Management System ISO14001



## 2. Production and Supply Chain

alfanar Electronics Engineering supports you in taking advantage of high-quality production and trained manpower while maintaining nearshore responsiveness to meet crucial timelines. We maintain total control of production from concept through to final shipment.

Our production site and distribution warehouses in Riyadh, Saudi Arabia ensure the planning, production of products, and delivery logistics are to ISO 9001 standards. Our products are engineered for strength, function, and dependability; our customer care is ongoing.

- PCBA design and manufacturing
- Fully automated SMT placement, assembly, and inspection
- Wave soldering and semi-automated soldering machine
- Consistent processes at all locations, with integrated supply chain quality measures

### 3. Electronics Design

Once specifications have been approved, the design team gets to work on the electronics design. alfanar Electronics Engineering works closely with you to prepare detailed drawings, parts lists, and circuit schematics. We use rapid prototyping, to reduce development time.

- PCBA design and layout
- Gerber file creation for PCB manufacturing
- ODM solutions and development
- PCB and PCBA prototyping



### 4. Quality and Testing

alfanar Electronics Engineering has a dynamic total quality management system that links all areas of our business resulting in greater efficiency and improved customer satisfaction.

alfanar's program of inspection, verification, and testing monitors all our product's quality and performance requirements throughout the production process. These tests ensure reliability, repeatability, and a long service life in accordance with international quality procedures.

- Laboratory tests with appropriate software
- In-Circuit Test (ICT) and Function-Circuit Test (FCT)
- Environmental test chambers (temperature and humidity)
- Compliance to different levels of protection
- Testing the durability of individual components
- Automated Optical Inspection (AOI)
- X-ray imaging inception
- Final inspection of all products





# PCBA Manufacturing Processes

The PCBA manufacturing process starts with the design concept, through development and creation, finalizing with delivery to the client.

From start to finish each process is under strict quality control and testing to obtain optimal results and achieve the greatest performance from our products.



# Manufacturing and Testing Equipment

At alfanar Electronics Engineering we have invested in the most advanced machinery and techniques to manufacture PCBAs.

The equipment has been sourced and imported from the world's leading industrial machinery manufacturers. Our equipment lineup includes:



*Yamaha YSP –Solder  
Paste Printer Machine*



*Yamaha YSi-SP –Solder  
Paste Inspection Machine*



*Yamaha YSM20R  
Pick & Place Machine  
(90,000 CPH/63,500 CPH )*



*VitronicsSoltecCenturion-Reflow  
Oven Soldering Machine*



*VitronicsSoltecDelta X  
Wave Soldering Machine*

## Qualifications

To meet and exceed the expectations of clients, alfanar reviews and improves its quality policies and services on a regular basis. alfanar's Electronics Engineering holds the following certification and standard accreditations from internationally recognized agencies:

- ISO9001:2015: Quality Management Systems
- ISO14001:2015: Environmental Management System
- ISO45001:2018: Occupational Health and Safety Management Systems
- Designing certificates: ALTIUM DESIGNER
- Quality control: FLIR THERMOGRAPHY
- IPC CIT & CIS



## Our Customers

Our commitment at alfanar, is to exceed our customer's expectations by providing top quality products backed by our warranties and out-performing in customer service. We acknowledge that our customers are the driving force behind our quest for continuous improvement and appreciate the support they have shown us over the years. Our customers inspire us to push boundaries and turn problems into solutions.



## Our Suppliers & Partners

Every day we work with our partners to deliver a consistent, high quality standard in everything we do. Over the years our valued partners have shared in our vision for excellence, inspiring us to be the best, deliver the best, and out-perform on customer expectations. These values have helped us build a solid foundation for the future and a strong reputation in the industry.

