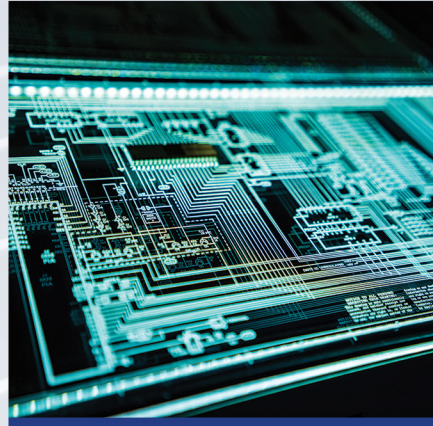
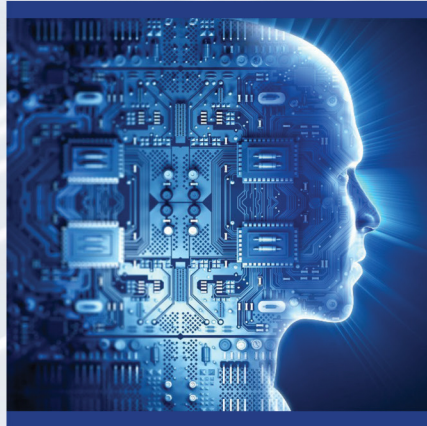




# FANAVARI MOJ KHAVAR



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





**Fanavari Moj Khavar**

## **About us**

Fanavari Moj Khavar (FANAMOJ) is one of the pioneers of digital communication in Iran. It was established in 1998 by a group of university professors and researchers with focus on Telecommunication, Electronics and Computer.

As a High-Tech enterprise it aims to become market leader in wireless communication in the Middle East. The company has participated in several national projects and has successfully provided sophisticated solutions for governmental and private sector projects. Further to create technology and knowledge, the company intends to develop expert human resources for the society.





## Vision

Market leader in Microwave Radio Links and Broadcast systems in the Middle East by 2025

## Mission

### Who we are

Fanavari Moj Khavar is a High-Tech enterprise in the fields of wireless telecom and broadcast systems with more than 20 years of experience. The company is currently biggest supplier of IRIB in low and medium power digital TV Transmitters. Further to supply the local market we export different broadcast systems and products to Europe Asia and Africa.

### What we do

The company offers further to Microwave Radio Links, a complete range of equipment for digital television signals transmission, processing and monitoring capable of competing with the world leaders of broadcast industry. Our strategy is to develop reliable systems and solutions at competitive prices for the local and international markets.

## Competitive advantages

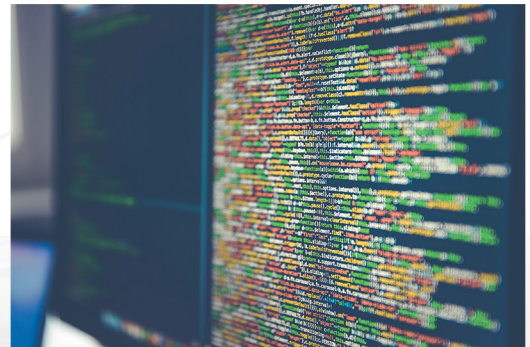
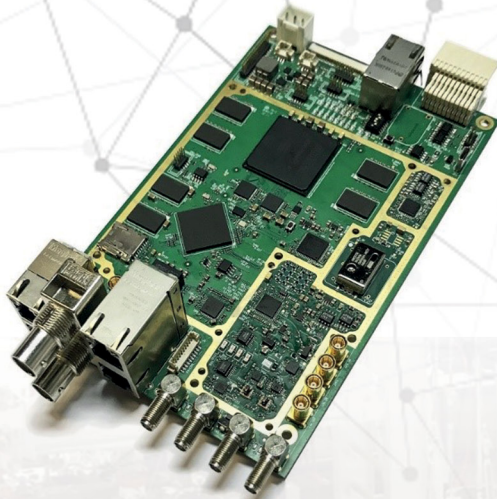
- More than 300 experienced university professors and experts of telecom, electronics and computer in R&D department
- Around 600 qualified engineer technician and skilled labour in the production department
- More than 20.000 m<sup>2</sup> production facilities equipped with modern machinery and test equipment based on the international standards further to state of the art laboratory equipment for research and development



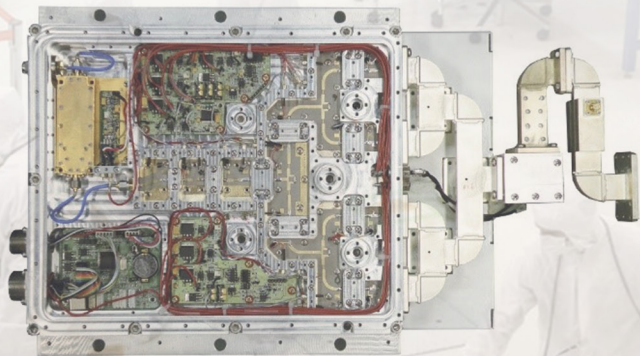
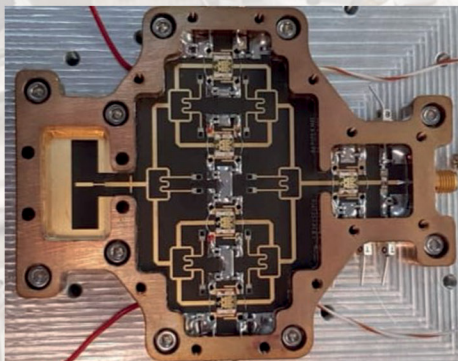
## Capabilities

### 1. Electronics

- Designing and manufacturing of advanced high density integration boards for various systems, including digital terrestrial and satellite broadcasting based on DVB standards for the first time in the country



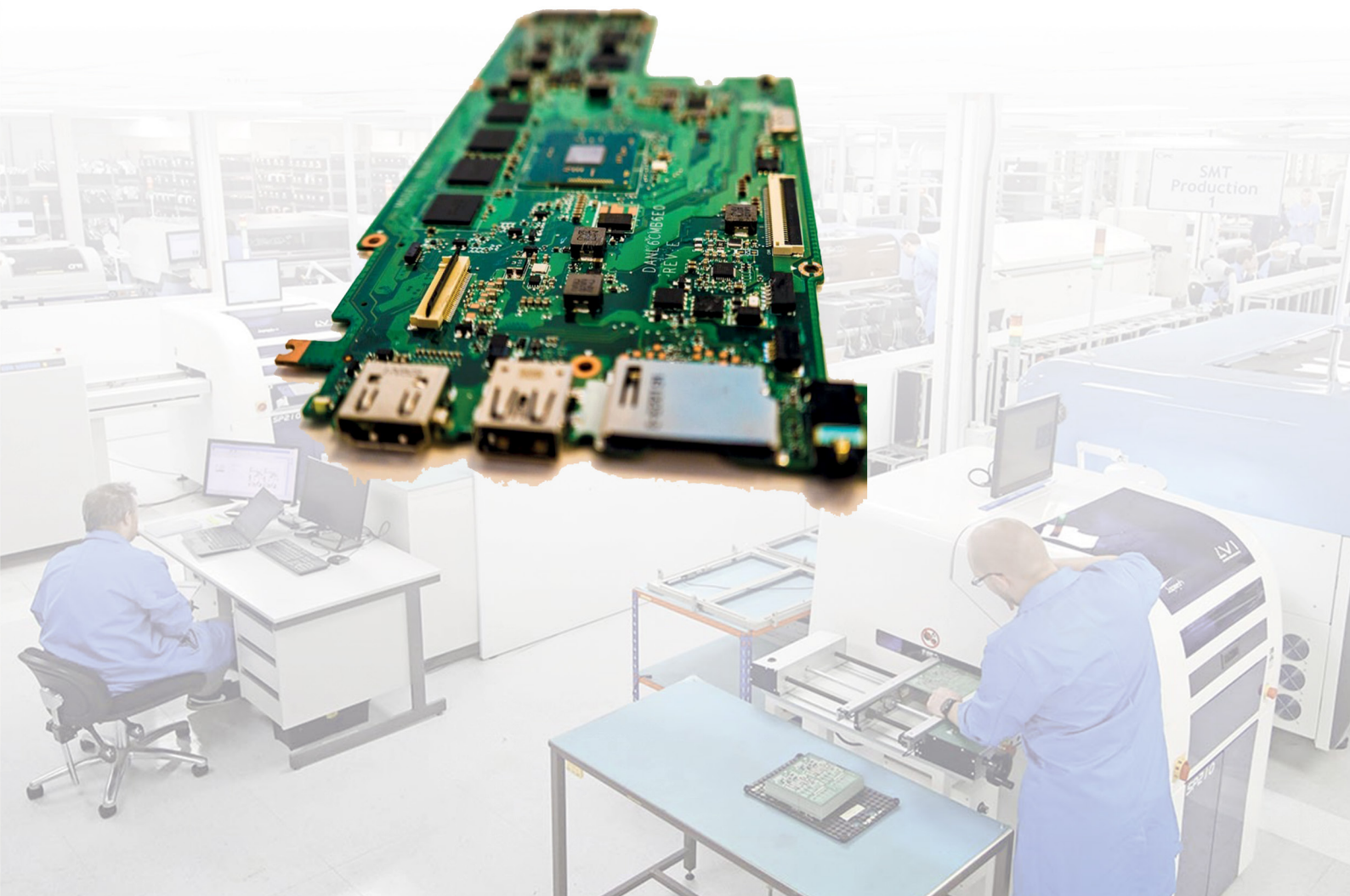
- Designing and manufacturing of various power amplifiers in different bands from 174 MHz to 18 GHz





## 1. Electronics

- Designing and manufacturing various kinds of electronic processing and control boards, including advanced signal processing and compression modules using Xilinx/Altera FPGA, DSP TI and Net Processor technologies
- Designing and manufacturing different kinds of IoT modules based on LPWAN, Cellular, ZigBee, Bluetooth, Wi-Fi and RFID technologies

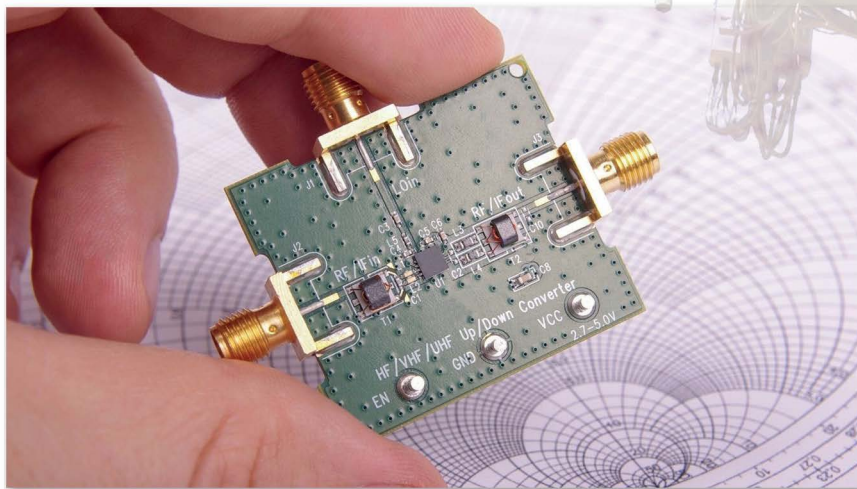




## Capabilities

### 2. Telecom

- High frequency circuits based on LDMOS, GaN, GaAs technologies that are used in making various power amplifiers.
- Circuits based on waveguide and microstrip structures that are used in making all kinds of combiners and splitters
- Design and construction of active-, passive components and antennas in different powers and bands

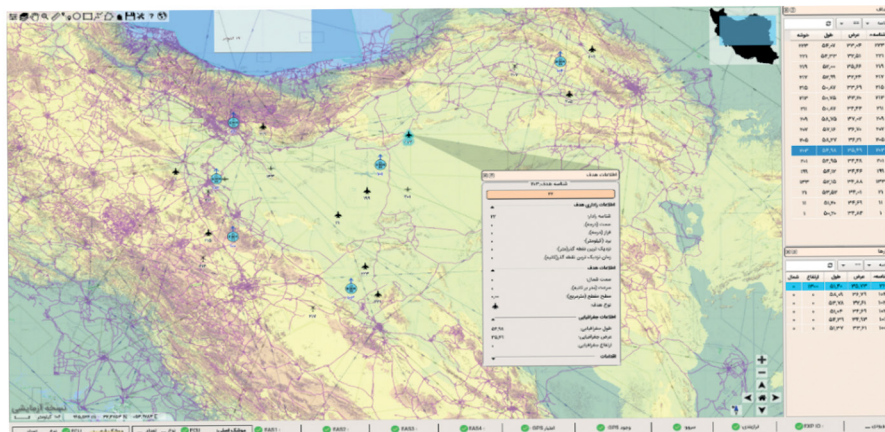
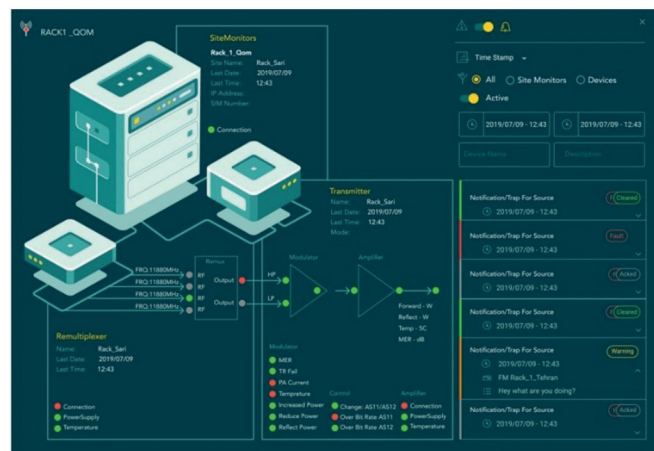
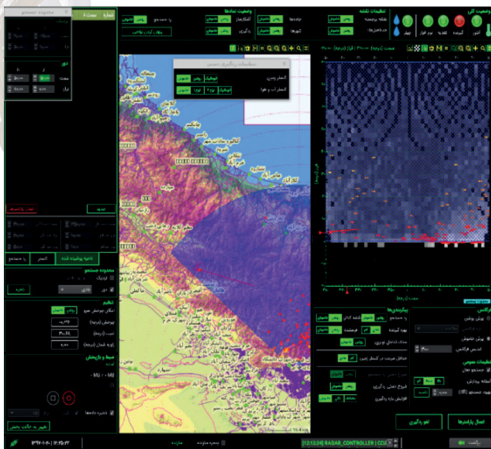




## Capabilities

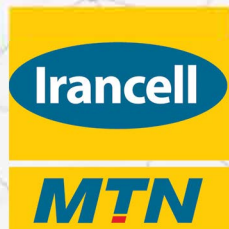
### 3. Software

- Standard distributed software implementation
- Software, based on GIS capabilities for various applications
- 3D graphics for various applications including simulation
- Web software with Micro service architecture
- Mobile software for different platforms





## Main Customers



شرکت مخابرات ایران

Telecommunication company of Iran)



هوادول

(Mobile Telecommunication Company of Iran)



صدا و سیماي جمهوری اسلامی ایران

(IRIB)



شرکت فرودگاههای کشور

Iran Airport Company





## BROADCAST

## Products

### Terrestrial

- Digital DVB-T/T2 TV Transmitter(1~500W)
- TV signal repeater
- Portable HD Microwave link
- DVB-T/T2 Modulator (OEM)
- TS Re-Multiplexer
- HEVC Encoder (H.265)
- H.264 Encoder/Decoder



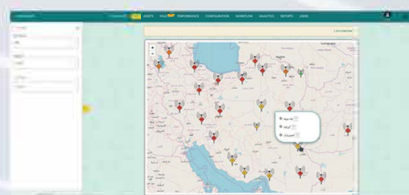
### Satellite

- DVB-S/S2 Modulator (OEM)
- KU Band SSPA



### Monitoring systems

- TV station and broadcast equipment monitoring system



## TELECOM

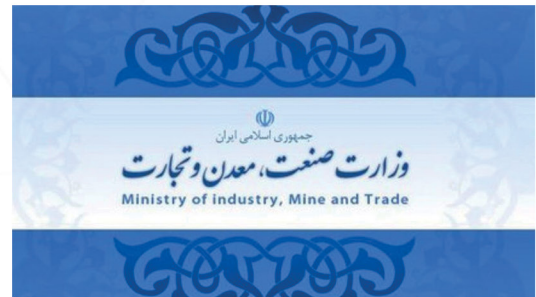
### Radio Links

- IP radio links (5 & 24 GHz)
- Hybrid radio links (15/18/23/38 GHz)



## Certificates and licenses

- Highest grade in the field of telecom and computer network
- Highest grade in the field of customized software
- Highest grade in the field of research and development
- 4th grade in cyber security
- 4th grade in peripheral devices
- Licence for production of radio equipment from communication regulatory authority of Iran
- Production license from ministry of Industry, Mines and Commerce





## **Honors and awards**

- Winner of the best manufacturing company award in the 15th Iran media technology exhibition and conference
- Winner of best manufacturing award in the 8th Iran media technology exhibition and conference
- Sheikh Bahai technopreneurship award 2009
- Best research and manufacturing product award for 15 GHz PDH Radio
- Presidency awards for DVB-S project in IKA (International Khwarazmi award)
- Top entrepreneur award from Iran presidency
- Technology and innovation exhibition product awards for manufacturing SSPA amplifier in KU band and DVB-T modulator

## **Prominent projects**

- Designing and manufacturing of 7000 low and medium power digital TV transmitters for the Iranian national broadcaster (IRIB) in order to implement DVB-T/T2 standard in Iran.
- First designer and manufacturer of DVB-S/S2/T/T2 modulators in the Middle East for Iranian national broadcaster (IRIB)
- Nationwide project for remote monitoring and controlling of 5000 TV stations
- Designing and manufacturing of Microwave Radio Links from 5 to 38 GHz for different governmental and private sector customers



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