



# Contract manufacturing in Russia

# About us



## Izhevskiy Radiozavod (IRZ)

IRZ is one of the leading electronics manufacturers in Russia implementing domestic and international projects related to space, railways, oil industry, navigation, telecommunications. The company possesses advanced technological solutions that enable creating high-quality radio electronics, and offers its services for contract manufacturing.

Experience



**60+ years**

Private company



**100%**

Number of employees



**5 700**

Management systems standards



**ISO 9001, ISO 14001,  
ISO 45001,  
ISO/TS 22163:2017**

# Udmurt Republic

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# 03

**380 km**

distance to the Kazan international airport

**1722 km**

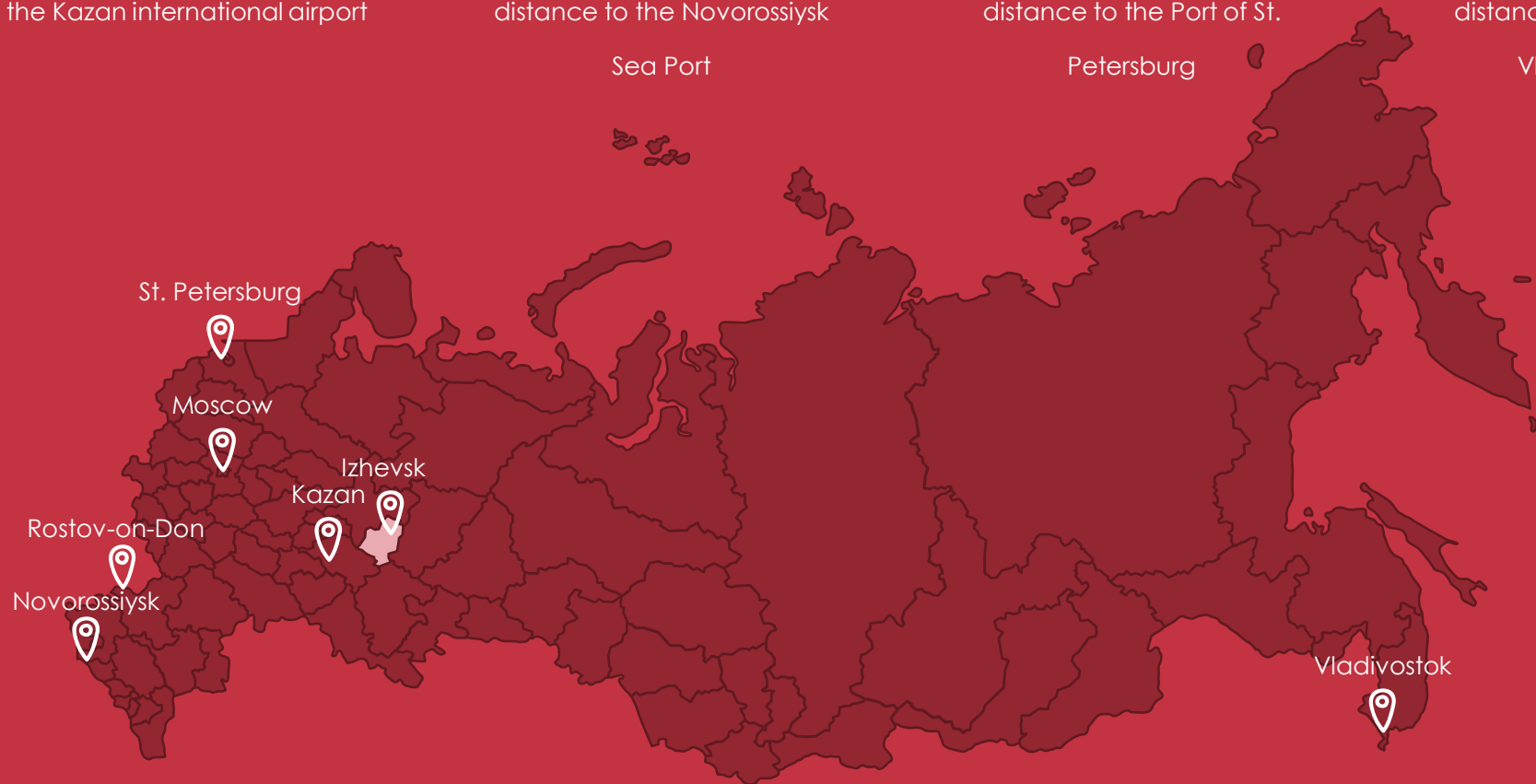
distance to the Novorossiysk  
Sea Port

**1910 km**

distance to the Port of St.  
Petersburg

**7832 km**

distance to the Port of  
Vladivostok



# We produce

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Space-related electronics for on-board and ground sectors



Equipment for railway control and communication



Navigation equipment



Telecommunication systems



Sensors



Visual control systems



Check-out equipment



Equipment for oil industry



Power electronics, supply units



Robotics

# Products and services

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## Industrial design

Sketching, prototyping, additive technologies, creation of 3D models, mechanical and performance analysis, reliability and structure analysis

**3D printing, CAE, CAD, CAM**



## EEE parts procurement and testing

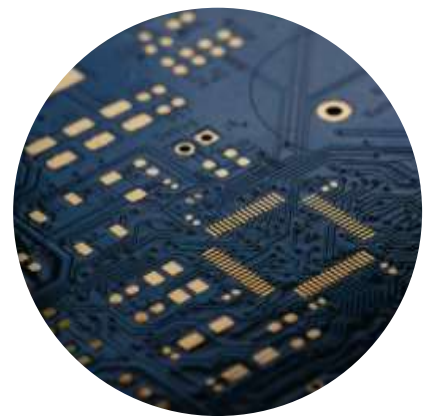
Incoming inspection, tests, failure analysis

**Specialized warehouses, climate control systems, logistics support**

## PCB production

Single-sided, double-sided, multilayer PCBs; boards with blind and hidden holes; flex-rigid PCBs; HF and microwave boards; PCBs with metal-coated holes; Al-based and metal-enclosed PCBs; printed transformers

**5+ accuracy class; number of layers: up to 24**



## SMT/THT

High-precision mounting of electronic components with all types of packages (including BGA, CGA, LGA,CCGA, QFN); convection reflow soldering; selective soldering; ultrasonic rinsing; 100% automatic optical inspection; X-ray quality control

**Simultaneous assembly: 320 part types; output: 50,000 components per hour**

## Mechanical processing

Processing of Al and Al-based alloys, stainless steel, Mg, Ti, non-metallic materials (milling and turning, welding and soldering, sheet metal processing); manufacturing of thermosetting, thermoplastic, and rubber products; Al die casting

**Advanced equipment; 20+ years of experience**



## Hybrids production

Microstrip boards, discrete passive components, metal-coated photomasks, hybrids, electronic semiconductor assembly units, crystal-based transistors



## Cables, winding parts and electronic components production

Varnish impregnation in vacuum; coating and potting with compounds; soldering of connectors; laser marking, engraving, wrapping with self-laminating labels

**Manual winding; high-precision tooling**





## Assembly and integration

EEE parts shaping; manual mounting of components; electrical installation; potting with compounds; moisture protection; assembly of electronic units in various designs; sealing and leakproofness testing; micro-welding; micro-soldering; electron-beam welding; PPX coating; photo and video recording of quality

**Advanced equipment, LEAN approach**

## Testing facilities

Vibration/linear acceleration; mechanical shock/drop weight; leakproofness; high/low temperature; thermal cycles in vacuum; frost and dew; high humidity; atmospheric low/high pressure; high vacuum; sand and dust; acoustic noise, and other types of tests

**400+ units of test equipment**





# Our benefits

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24/7 service and support



Flexible production lines



Full design and development cycle



Developed transport infrastructure of the region



Cost effective and affordable production

# Our partners

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# We are trusted

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ALSTOM



STADLER

SIEMENS



# Let's do business!

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# 12

**“The Udmurt Republic has been famous for manufacturing and engineering achievements for more than two centuries. IRZ sees its purpose in creating innovative high-quality products to improve the standards of life. We are open to cooperation and are ready to become a part of your production process!”**

**Elena Mityagina**

Deputy CEO – International Business Director



# Izhevskiy Radiozavod (IRZ)



2021



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