

1995

Founding of SECTRON company.

Company Profile

Connecting devices to bring the future now





SECTRON has been working in the field of wireless technologies for over 25 years as a distributor of GSM/UMTS/LTE/GPS/GLONASS modules, modems and routers. We are a producer of antennas, cables and other accessories. The dynamic growth of high-speed and cost-effective LTE applications is transforming the Machine-to-Machine world (M2M) into a complex ecosystem of sensors, machines and network applications called Internet of Things (IoT).

Thanks to the many years of partnership with companies such as Thales, Trimble, JADAK, Elatec, Advantech, Robustel, Teltonika and Andra, we can offer an extensive portfolio of products for your projects.

We specialize in providing IoT solutions across multiple industries: Smart Metering, Smart Energy, RFID Technology, Smart City, Electromobility, Security, etc.

We develop devices, applications and cloud services using state-of-the-art technologies for high added value and ease of use in everyday life.

1999

Creation of the Wireless Technologies division

2000

Authorized dealer of SIEMENS Wireless Modules (Thales)
16,000 antenna adaptors manufactured

2001

Start of the connector and cable adaptor manufacture
First RF cable adaptor produced using our own design!

2003

Start of OEM manufacturing in Taiwan

2004

184,000 antenna adaptors manufactured

2005

Modernization of cable adaptor manufacturing process in CZ

2006

New business partner - CONEL (Advantech B+B SmartWorx)
We have customers in 26 countries!

2007

New business partner - HIROSE JAPAN
253,000 antenna adaptors

2010

Authorized distributor of Trimble
for Czech Republic, Slovakia and Austria.

25

years on the market

49

countries

EUR 2,400,000+

turnover

25+

employees

6

distribution partners

500,000+

products made every year



Socially and environmentally
responsible company





2013

Authorized distributor of Robustel
Founding of the sister company SECTRON SERVICE

2014

New business partner ELATEC
Extended distribution contract in Poland for GEMALTO (Thales)

2015

Relocation of company into the new place

2016

Honorable mention Golden AMPER 2016 for LTE Router
Spectre v3

2017

Start of OEM manufacturing in China

2018

Focus on Smart City and Electromobility Industry

2019

Honorable mention Golden AMPER 2019
for sensoric air-quality measurement product

2020

Launch of Cloud-based Services and Multi-Sensor Platform



SECTRON FAMILY...The perfect team of people where everyone is involved in the satisfaction of our customers. All departments, Management, International & Czech Sales, Production, Technical and Financial Dept., Warehouse work together under one roof.

**// We're headed to a world where our
doors unlock when they sense us nearby.**

Scott Weiss //



Production of Cable Adaptors

Advantages of SECTRON production

Exceptional quality/cost ratio of the produced cable adaptors. Output check of each product before shipment to a customer.

Continuous checking of electrical and mechanical properties of products during production.

Constant effort to improve electrical and mechanical properties of products by introducing new types of connectors and coaxial cables or by modifying manufacturing procedures.

Collaboration with connector manufacturers - modification of existing connectors to improve their electrical or mechanical properties.

Input inspection of the materials prior to their use, with particular emphasis on the mechanical resistance of the connectors against tugging, jamming or turning of the central contact.

High quality of soldered joints thanks to the use of stereoscopic microscopes in every soldering process.

Preference for soldered joints rather than mechanical - if possible by the cable type and the connector.

We produce in an efficient, modern and accurate manner

We use the best quality Schleuniger Stripping Machines to precisely adjust flexible coaxial cables. Stripping the cable from 0.81 mm.

Soldering operations are always performed precisely under the microscope.

We use Spectrum Agilent N93330A to measure accurate signal characteristics (VSWR + CL).

What do we specialize in?

- Production of cable adaptors and extensions
- Antenna customizations
- Production of power cables
- Modifications of power supplies
- Production of serial RS232 data cables
- Production of cable bundles according to the customer's request

During inspection, we focus on these mechanical parameters

- Length of cable adaptors
- Attaching the connectors to the cable (tug)
- Orientation of connectors
- Cable descriptions, cover sleeves
- The position of center contacts
- Threads, connection mechanisms of connectors
- Short circuit and wire breaks (VSWR)
- Securing of the central contact



Production of Antennas

Quality is our priority

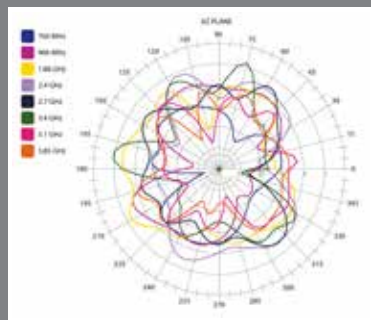
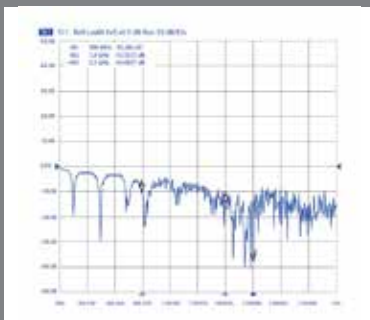
We place emphasis on design, production and testing of antennas. We care about maximum quality, high transmission parameters, and the use of exclusively high-quality certified raw materials. We decidedly refuse to use substitutes for Teflon dielectric materials, recycled plastics and substances banned by RoHS and REACH.

As per customers' specific needs, we offer antenna adjustments such as optional cable lengths or end connectors. If necessary, we can differentiate cables with colored markers or descriptions stickers.

We are continuously expanding our antenna portfolio going hand in hand with the current IoT and M2M communications market trends.

We measure the basic parameters of antennas

We check the reflection properties of antennas, such as the voltage standing wave ratio VSWR and the reflection factor S11, as well as transmission properties such as attenuation and gain. We also measure radiation diagrams in both vertical and horizontal planes. From these diagrams it is possible to read the maximum gain and radiation angle of the measured antenna.



We place great emphasis on:

- Mechanical inspections of all antenna parts
- Cable parameters and integrity
- Electromechanical properties of antennas
- Perfect quality and selection of connectors

The most common classification of antennas:

- 2G/3G/4G/5G/NB-IoT cellular antennas
- GPS/GLONASS/BeiDou position antennas
- Combined antennas
- WiFi, Bluetooth, ZigBee, ISM antennas
- External Screw/Magnetic, Adhesive mount antennas
- Embedded Monopole/PIFA/SMD/FPC antennas



Distributor of Global Brands

SECTRON is an authorized distributor for worldwide leaders in M2M.

Wireless Modules

- Cellular 2G / 3G / LTE / NB-IoT, GPS, GLONASS, BeiDou, Wi-Fi, Bluetooth, RFID LF / HF / UHF



Wireless Routers

- Cellular 2G / 3G / LTE / LoRa / Wi-Fi



Industrial Terminals & Smart Modems

- Cellular 2G / 3G / LTE
- Java-based / Linux-based



RFID

- Readers, Antennas, Tags, Software



Own Development

We develop our own hardware and communication solutions together with applications for data collection and evaluation.

GSM KEY

GSM KEY is a device that allows you to open a gate, doors or operate simple switch-based devices using a mobile phone. Users are authorized based on the phone number of the incoming call. The device can also be controlled using Windows or a mobile application for Android / iOS. Our cloud-based remote monitoring and management solution is the latest Add-on.

TERMINALS

These devices are designed for integration into the client's own solution. They ensure a seamless connection and transfer of information. For all our products, we place great emphasis on quality and reliability, which we consider to be the key component for your applications. We also offer Mini PCIe modems which expand the communication possibilities of your applications and help in their integration into Internet of Things systems.

SECTRON CLOUD

SaaS platform for collecting, processing, visualizing and managing devices in IoT. This enables device connection via standard IoT protocols - MQTT, CoAP and HTTP. The cloud combines scalability, fault tolerance and performance, so you never lose your data and you will have access to your data in both text and graphic form when you need it.

SMART CITY

We are involved in a number of M2M and IoT projects of our partners as a component distributor. In our own development, we have prepared a cloud platform SENSE.CORE for collecting and evaluating sensory data from several types of sensors. In the field of electromobility, we have been working with charging station manufacturers to develop communication solutions for full administrative and management controls and monitoring of charging stations.

RFID CORE

The application can interpret the data obtained from the RFID tag reader and display them using various graphics modules and possibly connect to external client software. RFID Core is suitable for monitoring company and production processes, warehouses, inventory of workplace equipment, up to automated entrance and security gates as well as attendance systems.

Own Development:

- Java application development
- IoT Software development
- Development of Cloud-based Applications

Customer Support:

- Consulting and Maintenance
- Energy Management Analytics
- Remote Management
- Helpdesk



Lots of new challenges

2021



Specialist in wireless technologies, Smart Home, Smart City, Electromobility, Security and other IoT solutions. Distributor of GSM/UMTS/LTE/GPS/GLONASS modules, modems and routers. Producer of antennas, cables and other accessories.

 SECTRON s.r.o.
Josefa Šavla 12
709 00 Ostrava
Czech Republic

 +420 556 621 020
 sales@sectron.cz
 www.sectron.cz

