



# 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 Gemalto M2M, Trimble, Elatec, Advantech B+B SmartWorx, Robustel 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.



**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





**2010**

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

**2013**

Authorized distributor of Robustel Founding of the sister company SECTRON SERVICE

**2014**

New business partner ELATEC Extended distribution contract in Poland for GEMALTO M2M

**2015**

Relocation of company into the new place

**2017**

Start of OEM manufacturing in China

**2018**

Focus on Smart City and Electromobility Industry

**2019**

Honorable mention Golden AMPER 2019 for DUSTEE product



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** **///**



# Our Production

SECTRON has been producing Tailor-made Cable Adaptors since 2001.

## 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

## 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.

The use of the best quality Schleuniger Stripping Machines for precision adjustment of flexible coaxial cables.

High quality brazed joints thanks to stereoscopic microscopes used for all soldering.

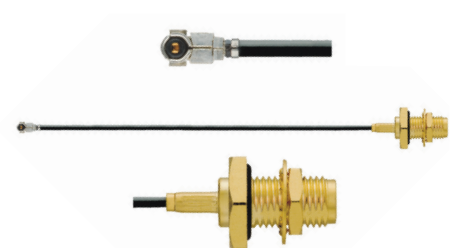
Preference for soldered joints rather than mechanical - if possible by the cable type and the connector.

## 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).







## Tailor-made Production of Cable Adaptors

SECTRON product portfolio includes a selection of coaxial cables in diameters from 0.8 mm to 10 mm suitable for frequencies up to 6 GHz. The capacity of our own production line is more than 500 RF cable adaptors a day.

For adjustment to these parameters, the Business Department will accept the customer requirement and develop a specific design to order. Thanks to the store availability and wide offer of brand connectors, cables, fuse boxes, bushes and other components, the requirement can be entered into production. Using the latest technologies and our experience in the field, we will manufacture and test a RF cable adaptor exactly for your device.

## Connectors

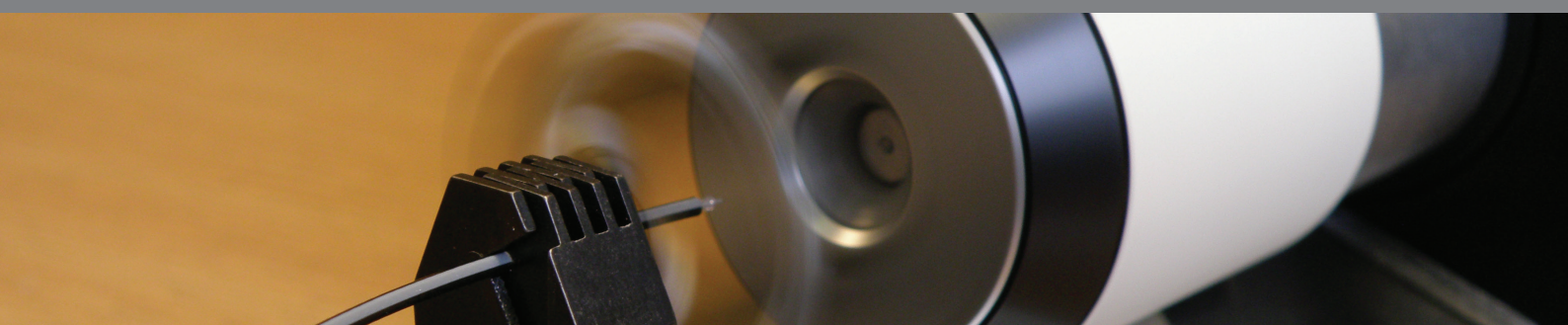
Coaxial connectors have to be of precise dimensions and have a quality surface finish to ensure repeated connections and disconnections. They have to provide an absolute conductive electrical contact. The contacts should be abrasion-resistant and maintain their electrical properties even after repeated connections and disconnections. This is achieved through the careful selection of materials and geometry of the contact elements.

The connector body, a mechanical part assembled of plastic and metal die castings, provides the mechanical connection and insulating properties. The basic and most commonly used shape of contact elements is a circular pin and socket. This is also the origin of the distinction between male and female connectors.

Connectors are further divided into straight, angular and other parameters as required by mounting and properties. We offer the following types of connectors

BNC, FAKRA, FME, GSC, HFL, IPEX-MHX, MC CARD, MCX, MCX-RP, MMCX, N, SMA, SMA-RP, SMB, SMP, TNC, U.FL.

Thanks to our wide range of connectors, we ensure high quality and stock availability.



# Our Portfolio

**SECTRON s.r.o. has taken the leading position on the antenna industry and wireless technology market in the last twenty years. Our own production of antennas and RF cable assemblies responds to the current trends on the IoT and M2M communication markets. Regular testing, emphasis on quality of workmanship, inspection and measurement using latest technologies and years of experience are all that guarantee the quality of our products.**

## Antennas

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

We offer our customers antenna adjustments as per their specific needs and designs. The Business Department will accept your requirements and design customised adjustments of cable length, mounting of required connectors, and recommend an RF cable adaptor as needed.

Our offer of antennas is not lacking, and we continuously expand our portfolio with the current trends and needs of the IoT and M2M communications market.

Our e-shop offers antennas for the following technologies

- Cellular 2G / 3G / LTE / NB-IoT / GPS / GLONASS BeiDou / DVB-T2 / TETRA / Wi-Fi / ZigBee / Combined
- External Antennas: Magnetic, Adhesive, Screw, Mount, Stubby
- Embedded Antennas: Monopole / PIFA, SMD / FPC

## GSM KEY

GSM KEY is a device which helps you open gates, doors, barriers and more using your phone. Users are authorized on the basis of the contact list included. This list can be edited by an administrator using SMS or from PC. Since the call is never picked up, the operation on the device remains absolutely free of charge.

## IoT & Smart City

A full range of Smart City IoT solutions for creating safer, more efficient, and health-boosting cities (energy management, public transportation, traffic management, parking, street lighting, water and waste management etc.)

## RFID Technology

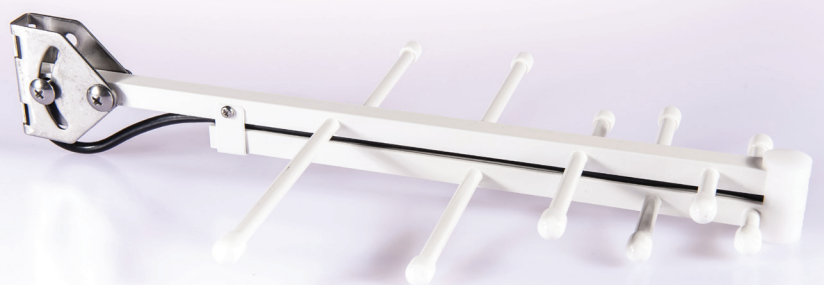
Technology of identifiers and devices associated with them, used for contactless transmission of information. RFID technology is similar to barcode systems, but does not require an optical element to read and therefore can be used without direct visibility.

## Development

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

## Technical Support

- Consulting & Maintenance
- Energy Management Analytics





## Wireless Modules

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



## Wireless Routers

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



## Industrial Terminals & Smart Modems

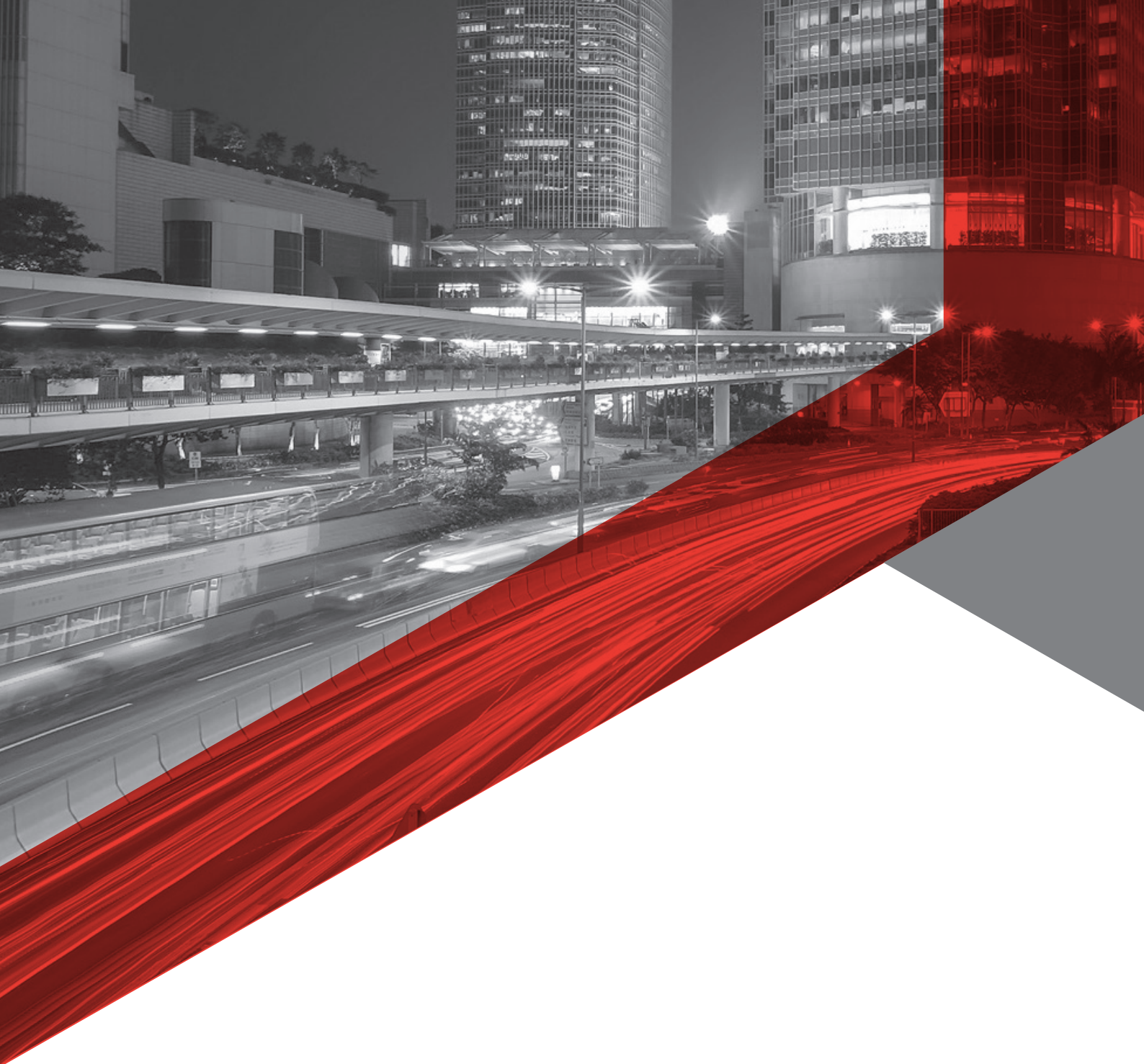
- Cellular 2G / 3G / LTE
- Java-based / Linux-based



## RFID

- UHF Readers & Antennas
- Uses: Access management, tracking of goods, logistics etc.





# SECTRON

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.

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