

Slovenian start-up operating in the New Space industry, specialized in high frequency, 5G based, mm-wave telecommunication solutions offers manufacturing agreement and is looking for commercial agent partners under commercial agency agreement.

Summary

Profile type	Company's country	POD reference
Business Offer	Slovenia	BOSI20221027004
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement	• World
Contact Person	Term of validity	Last update
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General Information

Short summary

The Slovenian start-up, expert in telecommunication device production, has developed and produced innovative, 5G based and reliable mmWave telecommunication systems for small satellites, drones and Satcom On The Move (SOTM) with improved performance, energy efficiency, reduced dimensions and weight. The company offers development and production services to telecom. Companies, institutes and universities under manufacturing agreement and is looking for partners under commercial agency agreement.

Full description

Slovenian start-up has been established 2 years ago. The team is composed of experts with long previous experience working in the telecommunication and space sector. The company is specialized in the development and production of innovative telecommunication solutions in radio high frequency, up to K-band, and in the production of every part of the accessories in 3D metal technology. The SME offers radio transmitters and receivers for space telecommunication together with personalization of their products or development of products with a specific design on request. Currently, the company offers the following products:

1. Compact K-Band Transmitter is a highly integrated and efficient solution for small satellites and SOTM terminals, specifically designed for low size, mass, and power consumption required to meet state-of-the-art / hi-tech customer requirements.
Support for numerous interfaces and communication protocols ensure compatibility with all popular CubeSat and Small-Sat platforms. Robust construction, component qualification, and electromagnetic interference (EMI) shielding meet the requirements for space and harsh environments.
2. Ka-Band Receiver is a highly integrated, versatile, and efficient solution for small satellites, 5G, and SOTM terminals, specifically designed for low size, mass, and power consumption required to meet state of the art customer requirements. It is suitable for a large variety of missions, from very high to ultralow; data-rates, it offers low noise conversion to S-band, as well as a fully integrated low power multiprotocol modem. The integrated ultra-high frequency (UHF) Transceiver allows additional forward and return channel for Telemetry, Tracking, Command (TT&C), and redundancy. It supports various interfaces and communication protocols, which ensures compatibility with all popular Cubesat and Smallsat platforms. Robust construction, component qualification, and EMI shielding meet the requirements for space and harsh environments.
3. Compact K Band Transmitter is a highly integrated and efficient solution for small satellites and SOTM terminals, specifically designed for low size, mass, and power consumption required to meet state of the art customer requirements which is suitable for a large variety of missions, from very high to ultralow; data-rates. It offers high linearity up-conversion for existing on-board S L band systems, as well as a fully integrated low power amplitude-shifting keying (ASK) / frequency-shift keying (FSK) / phase-shift keying (PSK) modulator and beacon generation. It supports various interfaces and communication protocols and ensures compatibility with all popular Cubesat and Smallsat platforms. Robust construction, component qualification, and EMI shielding meet the requirements for space and harsh environments.
4. Compact Ka-Band Transceiver is a highly integrated, versatile, and efficient solution for small satellites, 5 G, and SOTM terminals, specifically designed for low size, mass and power consumption required to meet state-of-the-art customer requirements. It is suitable for large variety of missions, from very high to ultralow; data-rates, it also offers low noise conversion to S/C band and a high linearity up-conversion to Ka-Band. The Transceiver operates in time division duplex (TDD) mode to maximize efficiency and integrates a multi-protocol programmable modem for ultra-low power applications. It supports various interfaces and communication protocols, which ensures compatibility with all popular Cubesat and Smallsat platforms. Robust construction, component qualification and EMI shielding meet the requirements for space and harsh environments.

The start-up would like to expand its business abroad and offers development and production services to telecommunication companies, institutes and universities under manufacturing agreement as well as is looking for commercial agents under commercial agency agreement.

Advantages and innovations

The company's advantage and strength lies in the team's extensive experience in telecommunication device production and developing their own products or products on customer's requests.

The innovative aspect of their products is that they are suitable for a large variety of missions, from very high to ultralow data-rates, it can offer high linearity up conversion for existing on-board S-L band systems, as well as a fully integrated low-power, ASK/FSK/PSK modulator and beacon generation.

Technical specification or expertise sought

Stage of development

Available for demonstration

IPR Status

Secret know-how

IPR Notes

Sustainable Development goals

• **Not relevant**

Partner Sought

Expected role of the partner

The companies sought are SMEs, big companies, MNEs, universities, and R&D institutions active in LEO high-throughput satellites, SATCOM, FSS, and ISL communications, UAVs and drones, BIU satellite services, GEO/GSO TT&C relay satellites, Cubesat and Smallsat mission, interested in being supplied by the latest state of the art, 5G based, mmWave telecommunication systems to integrate them into their products (eg. satellites, UAVs, drones, SATCOMs, communicating IoT devices, etc.) or distribute them to the final users.

The role of the partner sought (as a final user) will be to define the parameters and characteristics of the requested product (personalization of their products or developing telecommunication devices with a particular design on request) and define the number of products needed/requested.

The role of the partner sought (as commercial agent) will be to identify potential end-users on the market(s), develop relevant marketing and commercial strategy, promote and present the company's products to the potential customers, discuss and negotiate the type/characteristics of the requested customized products and conclude the business agreement.

Type of partnership

Commercial agreement

Type and size of the partner

- **R&D Institution**
- **SME 11-49**
- **SME <=10**
- **SME 50 - 249**
- **Big company**
- **University**
- **Other**

Dissemination

Technology keywords

- **01006008 - Satellite Technology/Positioning/Communication in GPS**

Market keywords

- **01005004 - Microwave and satellite components**
- **01005002 - Satellite ground (and others) equipment**
- **01005005 - Other satellite/microwave**

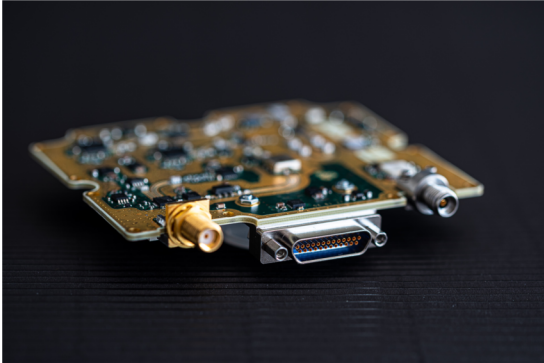
Targeted countries

- **World**

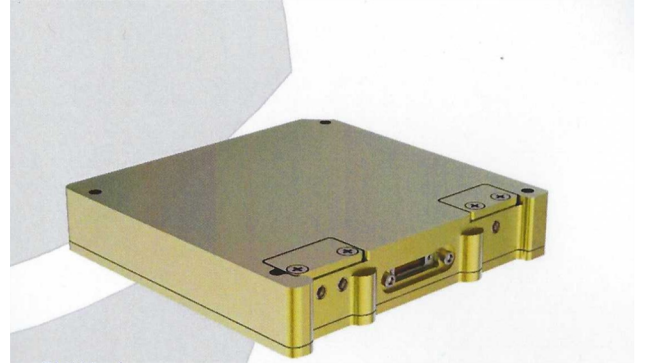
Sector groups involved

Media

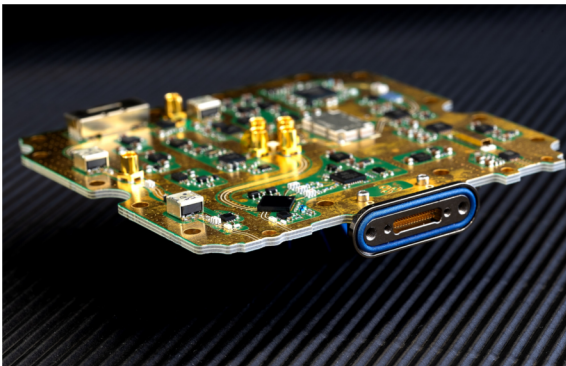
Images



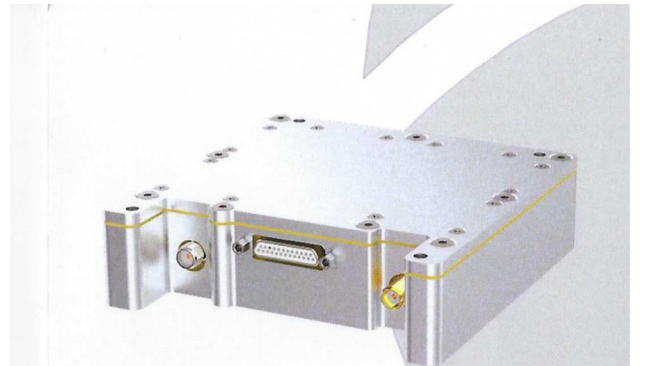
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