

# Millimeter Wave Products



Sivers IMA AB is capable of designing and manufacturing a wide range of millimeter-wave components and subsystems; our experience includes coaxial and waveguide based components up to 220 GHz. Frequency sources and up/down converting front-end modules are our main expertise but we are always open to producing custom designs. Feel free to contact us with your specific requests.

Sivers IMA AB serves both mature and emerging millimeter-wave markets, including commercial and secure communication, defense, research equipment, homeland security, and instrumentation.

In order to keep our expertise up-to-date, we have a close collaboration with [the Microwave Electronics Laboratory](#) and the [GHz Centre](#) at Chalmers University. Through this collaboration, we have access to more than fifty world leading scientists in the microwave and millimeter-wave field, paired with one of the most advanced laboratories available.

## E- and V-band Converter Platforms

### General

This converter platform is a broadband and versatile building block for radio link applications. It is intended as a platform where customer requirements (such as extra gain, LO synthesizers, filters, diplexer, etc.) will be implemented upon request. It consists of one up and one down-converter in a single unit. The up- and down-converter function independently, and can thus be used in both frequency multiplexed and time multiplexed applications. The converter may use an internal or external LO synthesizers, depending on the needs of the user.

### Main features

- Platform concept, easy to customize
- Optional synthesizers, fully computer controlled through serial I2C interface
- Optional filters or diplexer with very high isolation

- Standard waveguide and SMA interface
- Small size and weight

### Applications

- Point-to-point or multi-point radio
- Multi-Gbps wireless transfer
- Measurement systems
- Electronic defense and security systems

### V-Band Converters (57-63 GHz)

Up & Down Converter	Frequency
<a href="#">FC1002V/01</a>	57-63 GHz

### E-Band Converters (71-86 GHz)

Up & Down Converter	Frequency
<a href="#">FC1001E/01</a>	71-86 GHz
<a href="#">FC1001E/03</a>	71-86 GHz

### Application Notes

#### [60 GHz converter application note](#)

Details development approaches to communications links using Siverts IMA V-band converter platform. Covers possible configurations, architectures and applications for this system