

NEWSPACE MARKET · COMPANY PROFILE



**celtonn**

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as of 20 August 2026



## celtonn

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Celtonn designs, tests, and qualifies RF components and custom RF solutions for space applications. The company manufactures precision-machined sub-systems optimized for ultra-high frequency applications from 75 GHz to 170 GHz, specifically W-Band and D-Band hardware. They also perform MMIC die assembly for substrate and metal structures and provide high-precision manual and automated wire-bonding capabilities for micro-electronic interconnects. Celtonn's products are engineered to meet rigorous space industry standards and environmental requirements. The company is supported by the European Space Agency (ESA) and has strong ties to European space programs. Their customers include those requiring custom RF solutions for space. Celtonn is headquartered and manufactures in Dublin, Ireland, operating a fully equipped semi cleanroom and high-performance manufacturing facility. The company also houses advanced RF testing equipment, precision manufacturing capabilities, and dedicated quality assurance laboratories, including facilities for noise figure and spectral analysis up to 180 GHz, vector network analysis from 0 Hz to 110 GHz, and low-frequency testing. Marie Bourke, CEO, has spearheaded multimillion-euro projects for the European Space Agency and Horizon Europe.

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# Product catalogue



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## K-Band Components (CLT-KA01A-MXR / Mixer 27GHz)

Connectorized K-Band components for GEO/MEO/LEO satellite payloads — passive IQ mixer, 27-32 GHz with 24 GHz local oscillator.

|                  |           |
|------------------|-----------|
| Frequency        | 27-32 GHz |
| Local oscillator | 24 GHz    |

price on request



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## K-Band Passive IQ Mixer (CLT-KA01A-MXR)

High-frequency RF subsystem for satellite communications — high-performance passive IQ mixer for up/down conversion.

|               |                                         |
|---------------|-----------------------------------------|
| Function      | Passive IQ mixer for up/down conversion |
| Target orbits | GEO, MEO, LEO                           |

price on request



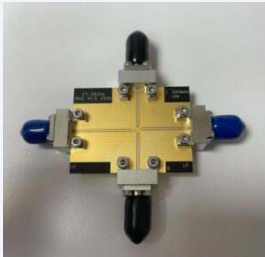
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## Ka Band Analog Phase Shifters (16-22 GHz & 25.5-32.5 GHz)

Connectorized Ka-Band analog phase shifters with continuously variable phase control — over 350-400 degrees of phase range for beam steering and phased array calibration.

|                       |                                  |
|-----------------------|----------------------------------|
| Frequency (variant 1) | 16-22 GHz, >350° phase range     |
| Frequency (variant 2) | 25.5-32.5 GHz, >400° phase range |

price on request



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## Ka Band High Gain Medium Power Amplifier (26-34 GHz)

Connectorized Ka-Band power amplifier delivering >23dB gain and 20dBm saturated output power across 26-34 GHz — for HTS payloads and feeder links.

|                        |           |
|------------------------|-----------|
| Frequency              | 26-34 GHz |
| Gain                   | >23 dB    |
| Saturated output power | 20 dBm    |

price on request



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##### Low Noise Amplifier 84-92 GHz (WB-LNA-86/94)

WB-LNA-86 and WB-LNA-94 are Celtonn's banded W-Band low noise amplifier modules covering 84-92 GHz with 35 dB gain and 3.5 dB noise figure, in a WR10 waveguide package.

|                    |             |
|--------------------|-------------|
| Frequency Range    | 84 - 92 GHz |
| Noise Figure       | 3.5 dBm     |
| Input Return Loss  | 10 dB       |
| Output Return Loss | 12 dB       |
| PIdB               | 14 dBm      |
| Gain               | 35 dB       |
| Voltage            | 5 - 7 V     |

[price on request](#)[datasheet](#)

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##### Low Noise Amplifier 89-97 GHz (WB-LNA-86/94)

High-gain, low-noise W-Band LNA modules with WR10 waveguide terminals — 89-97 GHz operation for communication and radar systems.

|                     |           |
|---------------------|-----------|
| Frequency           | 89-97 GHz |
| Waveguide terminals | WR10      |

[price on request](#)

#### CELTONN

##### W-Band Bandpass Filter (WB-9296FLTR)

WB-9296FLTR is a compact WR-10 waveguide bandpass filter covering 92-96 GHz with sharp out-of-band rejection, engineered in Dublin for space and aerospace applications.

|                     |           |
|---------------------|-----------|
| Frequency Range     | 92–96 GHz |
| Insertion Loss      | 1.2 dBm   |
| Rejection at 90 GHz | 35 dB     |
| Rejection at 86 GHz | >40 dB    |

[price on request](#)[datasheet](#)

#### CELTONN

##### W-Band Receiver Module (WB-RX-9296-LN)

WB-RX-9296-LN is Celtonn's highly sensitive W-Band receiver module operating nominally from 92-96 GHz, with a 3.5 dB noise figure and WR10 waveguide interface.

|              |                     |
|--------------|---------------------|
| RF Input     | 91–97 GHz           |
| RF Output    | 1-7 GHz             |
| LO Frequency | 10.5/21-11.5/23 GHz |
| LO Power     | 10-18 dBm           |
| Noise Figure | 3.5 dB              |
| Gain         | 15 dB               |
| Voltage      | 7V Max              |

[price on request](#)[datasheet](#)



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## W-Band Transmitter Module

WB-TX-9296MP is Celtonn's medium-power heterodyned W-Band transmitter module operating nominally from 92-96 GHz, customizable for most W-Band frequencies.

|                   |                     |
|-------------------|---------------------|
| RF Output         | 91-97 GHz           |
| RF Input          | 1-7 GHz             |
| LO Frequency      | 10.5/21-11.5/23 GHz |
| LO Power          | 10-18 dBm           |
| Output Power P1dB | 15 dBm              |
| Gain              | 14 dB               |
| Voltage           | 7V Max              |

price on request

[datasheet](#)

## Contact celtonn

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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