

# Septentrio Releases New High-precision GNSS Module



Septentrio has announced that the [Mosaic](#) development kit is available for testing and integration. Mosaic is Septentrio's most compact next-generation, high-precision multi-frequency GPS/GNSS module. This receiver brings precision and reliability of high-end multi-frequency GNSS to mass-market applications. It is designed to fit into the assembly line process, which allows Mosaic to be favourably priced for high volumes.

Its light weight and low power consumption helps extend battery life of robotic devices, increasing operation time and efficiency. This makes Mosaic ideal for applications such as robotics, automation, telematics and wearables.

"We see a growing demand for reliable high-precision positioning," said Chris Lowet, product manager at Septentrio. "A few years ago, this demand was concentrated in professional applications, for example survey, high-precision mapping and machine control. Today, with expansion of robotics, automation and IoT, a wide range of devices need high-precision positioning, from Ag robots to IoT gateways to autonomous vehicles. We designed Mosaic to answer these market needs."

## Working in tough environments

Some of Mosaic's highlights include centimetre positioning in tough environments with multi-frequency, multi-constellation GNSS technology, as well as [Advanced Interference Mitigation](#) (AIM+), which enables it to continue working despite radio interference from other electronic devices or jamming. Additionally, the new module also includes extensive corrections support for high-accuracy positioning such as SBAS, PPP, SSR and RTK. The new GNSS receiver module also allows tracking all current and future GNSS satellite signals for enhanced RTK performance and guaranteed RTK network compatibility.

The development kit assists Septentrio customers with integrating Mosaic into their system. It supports connectivity through internet, COM ports, USB 2.0 as well as an SD card slot.