

# Topcon Announced G3 Technology

Topcon Europe Positioning (The Netherlands) has announced Gs, a new technology for satellite positioning systems. This development is a receiver technology with Universal Signal Tracking, a system capable of tracking all signals from all three satellite systems: GPS, Glonass and Galileo.

Topcon developed G3 to provide access to 30 Galileo satellites planned for launch by ESA, and new signals that will result from the modernisation of the GPS constellation. When these three satellite systems are fully operational, users of G3 will have access to over 80 satellites.

To process multiple signals from multiple satellite systems, Topcon engineered the new Paradigm-G3 chip. It is capable of receiving L1, L2 and L5 carrier frequencies; C/A and L2C civilian codes; and P-code on both L1 and L2 frequencies. It also receives Glonass signals including L1 and L2 carrier frequencies and L1/ L2 C/A and P-codes. The entire Galileo signal structure is supported, including L1, E2, E2, E5 and E6 signals.

The new chip will be the basis for a new generation of Topcon GPS+ products and will first appear in the new RS-G3 reference receiver.

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<https://www.gim-international.com/content/news/topcon-announced-g3-technology>

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