

Easier On-site GPS Signals



The new eBridge, from Champion Instruments, USA, enables GPS network corrections to be broadcast wirelessly from existing RTK Radios (Pacific Crest, Satel, TrimMark, ArWest, etc.), via the internet, right to the project site, directly to machines. eBridge eliminates the need for troublesome Bluetooth DUN Phone connections and a traditional GPS Base Station (or “tower”™) and can receive internet signals, wherever a Real-Time Network (RTN) exists.

This is also the first RTK Bridge that can use the faster 4G networks available today via mobile hotspots and is ready to make 5G connections when they become available.

The Champion RTK eBridge provides internet-based DGPS/RTK corrections via NTRIP or Direct IP to legacy positioning systems which cannot be easily connected to the internet, or where the manufacturer’s solutions limit connectivity to GSM or 2G/3G. Also, because the eBridge is an open solution, its internet connection can be shared with other devices, usually eliminating costly monthly cellular bills.

The single hardware platform that supports all the worldwide cellular carriers and allows for instantaneous upgrading to the new 4G networks through Wi-Fi and Plug and Play LINUX USB Modems. This new bridge supports Ethernet, Bluetooth, USB Modems from multiple carriers, and Wi-Fi B/G and eight user connection accounts.

Incorporating a LINUX engine with ample RAM, the system is easily upgraded as new features and modems become available. The integrated L1 GPS Engine (standard) also supports a patented memory cache allowing the Champion RTK eBridge to connect to RTK Networks without having a current position. If needed, the eBridge is available with a Li-Ion battery which supports over twelve hours of operation without external power.

Champion’s simple-to-operate eBridge works with all major machine control and construction equipment including Trimble, Topcon, Leica, Carlson, and many others. The Champion eBridge ensures that users will be able to use today’s latest technology as well as connect with the quickly evolving cellular markets of the future.