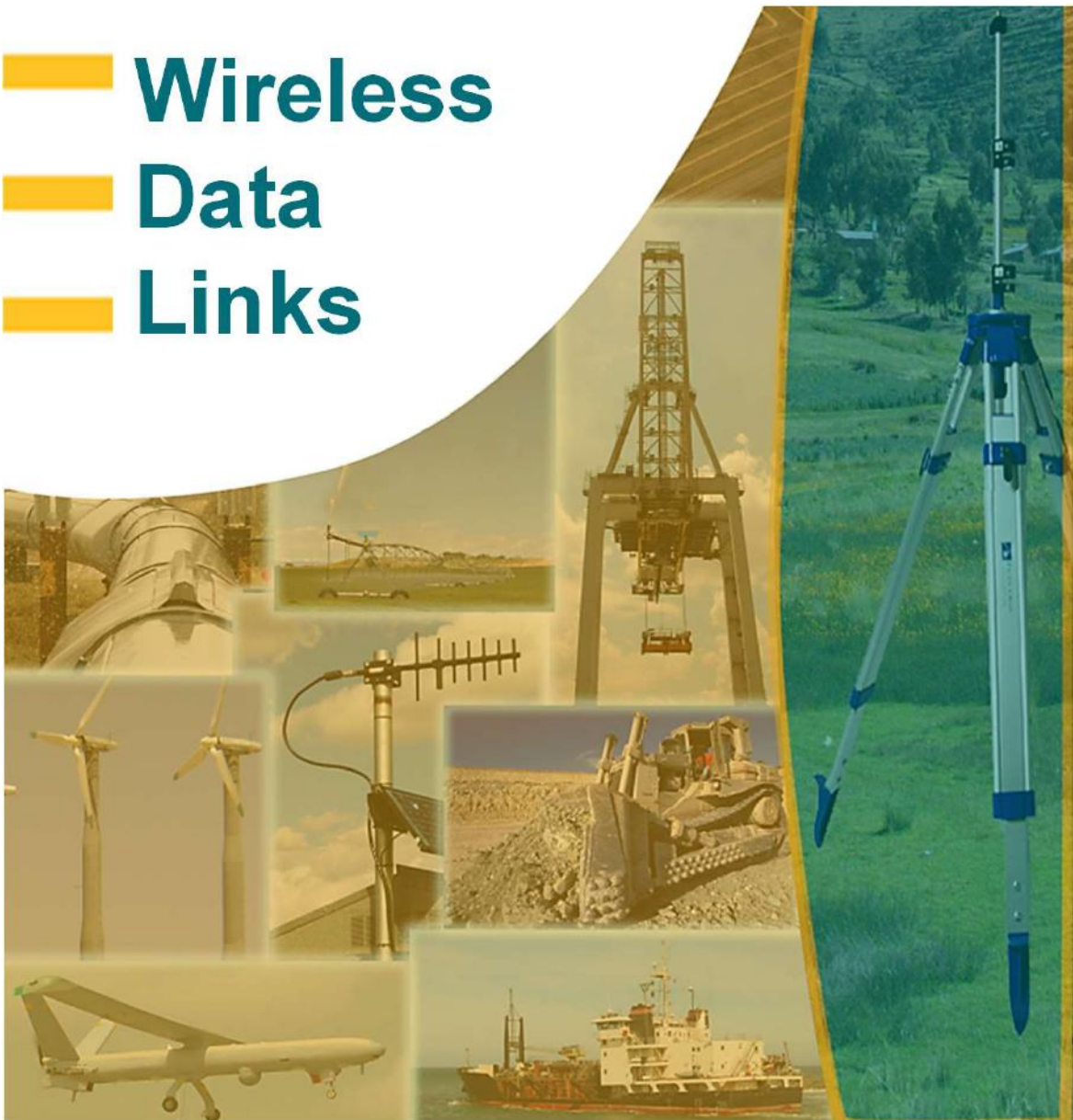




# PACIFIC CREST



**Wireless**  
**Data**  
**Links**



## Radio Modems

Pacific Crest offers a selection of radio modems that serve to provide wireless data links for RTK positioning and remote sensing. As detailed below, the sophisticated line of Pacific Crest’s next generation Advanced Data Link (ADL) products include the ADL Vantage 35, a 35-Watt programmable UHF radio; and the ADL Vantage, a 4-Watt programmable UHF radio for survey applications. These products remain backward compatible with existing Pacific Crest, Trimble and other products.

<p><b><u>ADL Vantage</u></b></p>  <p>The image shows the Pacific Crest ADL Vantage radio modem. It is a handheld device with a blue faceplate and a black textured back. At the top, there are three indicator lights labeled TX, PWR, and RX. Below them is a small LCD screen. The Pacific Crest logo and 'ADL VANTAGE' are printed on the faceplate. A green power button is located below the screen. At the bottom, there is a directional pad with a 'SELECT' button in the center.</p>	<p>The ADL Vantage is an advanced, high speed, wireless data link built to survive the rigours of GNSS/RTK surveying and precise positioning. This sophisticated 0.1-4.0 Watt radio modem utilises Pacific Crest’s next generation Advanced Data Link (ADL) technology while remaining backward compatible with existing Pacific Crest, Trimble and other products. ADL Vantage’s full function user interface streamlines field configuration and troubleshooting so you can maintain maximum productivity. For the most rugged and reliable digital data link, go with the Geomatics industry’s new standard in lightweight wireless communications – the ADL Vantage.</p> <p><b>Features</b> include a multi-function user interface; heavy duty construction; a high Over-the-Air link rate; configurable transmit power; advanced 40 MHz bandwidth and software derived channel bandwidth.</p>
<p><b><u>ADL Vantage 35</u></b></p>  <p>The image shows the Pacific Crest ADL Vantage 35 radio modem. It is a handheld device with a blue faceplate and a black textured back. At the top, there are three indicator lights labeled TX, PWR, and RX. Below them is a small LCD screen. The Pacific Crest logo and 'ADL VANTAGE 35' are printed on the faceplate. A green power button is located below the screen. At the bottom, there is a directional pad with an 'ENTER' button in the center.</p>	<p>The ADL Vantage 35 is an advanced, high speed, high power, wireless data link built to survive the rigours of GNSS/RTK surveying and precise positioning. This sophisticated 2-35 Watt radio modem utilises Pacific Crest’s next generation Advanced Data Link (ADL) technology while remaining backward compatible with existing Pacific Crest, Trimble and other radios. This radio’s 35 Watts of power maximises range, enabling you to work in difficult terrain and urban areas. Its full function user interface streamlines field configuration and troubleshooting so you can maintain maximum productivity. For the most rugged and reliable long range data link, go with the Geomatics industry’s new standard in wireless communications – the ADL Vantage 35.</p> <p><b>Features</b> include configurable transmit power; multi-function user interface; heavy duty construction; a high Over-the-Air link rate; advanced 40 MHz bandwidth; and software derived channel bandwidth.</p>

## Integratable Radio Modems

In addition to their rugged enclosed radio modems, Pacific Crest also offers integratable modules. The XDL Micro (as detailed below) is Pacific Crest’s most sophisticated integratable transceiver, utilising Pacific Crest’s next generation XDL modem technology while remaining backward compatible with existing Pacific Crest, Trimble and other products.

### XDL Micro



The XDL Micro is a 0.5-2.0 Watt UHF transceiver designed for integration into products that require either a one- or two-way radio communication link that is configurable for operation between 403 and 473 MHz. This high performance and sophisticated radio modem utilises Pacific Crest’s latest generation XDL technology while remaining backward compatible with existing Pacific Crest, Trimble and other products. Integrating the latest modem technology from the leader in radio frequency data communications instantly puts your products in touch with the world’s largest installed base of GNSS precise positioning systems, and with Pacific Crest’s system integration expertise, you are buying a solution, not just a modem.

**Features** include 70 MHz coverage single 403-473 MHz band; a high Over-the-Air link rate; software derived channel bandwidth (12.5 and 25 kHz); and high environmental capabilities.

### XDL Micro Integrator’s test board



The XDL Micro test board is supplied as part of the XDL Micro Developer’s Kit and is key to getting started with integration of the XDL Micro transceiver.



# Radio Modem Antennas

Scancom Radio Communications can supply antenna systems and associated accessories for use with Pacific Crest Radio Modems, a small selection of which are shown here.

## Omni-Directional Collinear Antennas



Omni-directional collinear antennas available from Scancom Radio Communications are very robust, able to withstand harsh environmental conditions and are available in a range of gain ratings. They are manufactured to a high degree of Telecommunication Specification, with all the phased radiating elements treated with a plasfilm coating and solder joints seal moulded in black carbon loaded polyethylene then housed in a reinforced tapered glass fibre tube. These antennas are most suited for mast head fixing for omnidirectional applications, but can also be side mounted to give some degree of directivity.

## Elevated Feed Antennas



Elevated feed antennas provide high performance in virtually any mounting position as the design helps raise the radiating element above any obstructions to provide a strong, omni-directional pattern. The elevated feed antennas available from Scancom Radio Communications are for use with Pacific Crest radio modems, and are available in a range of gain ratings.

## Low Loss Co-axial Cables



Coaxial cables are made up from copper combined with other metal shield materials and components to block signal interference, and are commonly used for carrying radio transmission signals. The low loss co-axial cables available through Scancom Radio Communications are ideal for use with Pacific Crest radio modems, and are available in a range of lengths and 'RG' specifications.

## Antenna Support Clamps



Heavy duty stainless steel parallel supporting clamps for antenna mounting.



**We do our job so you  
can do yours.**

Pacific Crest is a leading supplier  
of wireless data communication  
systems designed for positioning  
and remote sensing activities.

The Pacific Crest Corporation was acquired by Trimble in 2005 and ever since has operated as a Trimble Company (Trimble Wireless), continuing to be a worldwide pioneer in the business of providing rugged and reliable wireless data communications systems, and enabling a world where computers, remote instruments or other devices communicate in real time.

Pacific Crest Radio Modems provide Wireless Data Links for RTK positioning and remote sensing, and are a known industry gold standard. Precise positioning applications utilise GNSS technology and the radio links that communicate RTK corrections; these applications include oil and gas exploration and rig moving, construction, and infrastructure monitoring. Remote sensing applications require the broadcast of digital information to and from remote sensing devices and central control offices using radio links to communicate this data; these applications include environmental monitoring and water management.

Pacific Crest Radios are compact, lightweight, watertight, rugged enough for the toughest environments, and are easily configurable in the field with an enhanced user interface. These broad spectrum transceivers offer up to 35 Watts of power and over-the-air link rates as high as 19,200 bps. Easy-to-integrate modules are also available to system integrators seeking the best radio modems possible.

As a Trimble Company, Pacific Crest delivers high quality service and support, so you can be confident your projects will run continuously and efficiently when choosing Pacific Crest.

For more information visit <http://www.pacificcrest.com>



## **CONTACT US**

### **Scancom Radio Communications**

The Hereford Barn, Cudham Tithe Barns,  
Berry's Hill, Cudham, Kent, TN16 3AG, UK

**Email:** [info@scancomrc.co.uk](mailto:info@scancomrc.co.uk)

**Tel:** +44 (0)208 669 8212

**Website:** [www.scancomrc.co.uk](http://www.scancomrc.co.uk)