



hello!

Bird's Eye View

Iridium Satellite is unique. It's the only provider of a global voice and data solution with complete coverage of the earth - including oceans, airways and the polar regions. The system is a lifeline for many, in markets ranging from marine and aviation through to military and emergency services.

The Iridium system is an engineering marvel. Its 66 low-earth orbit (LEO) satellites circle the earth at an altitude of 500 miles and form the largest commercial satellite constellation in the world. The 'birds', as the satellites are affectionately termed, travel at around 5 miles per second, each with a footprint around the size of the USA. Travelling at this speed, each provide up to 9 minutes coverage to a user on the ground, before dropping to the horizon and servicing the next region of the globe.

To take advantage of this unique space infrastructure, devices on the ground must first be capable of transmitting their signal up to the satellites, even when they are furthest away, close to the horizon. Further, the devices must also have highly sensitive receivers, capable of receiving the satellite's transmission as it arrives back at earth, with significant frequency and time shifts.

Since 2003 Cambridge Consultants has been Iridium's design authority for its ground-based handset and terminal equipment. Acting as Iridium's virtual design team, Cambridge Consultants' input has enabled Iridium to focus on its core business – network operation, airtime and subscriber equipment strategy.

Our work began by re-designing Iridium's handset to take advantage of latest proven technology, to develop a powerful and flexible platform that would act as the foundation for other products in the future. Since then, we have developed several derivative products, and are now working to develop a revolutionary broadband extension to the Iridium product range, as well as other improvements to existing product lines.

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David Schoen, Vice President of Technology & Chief Technology Officer:

Cambridge Consultants does not impose a 'one size fits all' solution, allowing processes to be tailored to our way of working. We enjoy the reassurance of their mature documentation and project management systems, as well as a thorough requirements management process, because it affords us highly accurate schedule and budgeting forecasts, and gives us the confidence to focus on the myriad of other activities associated with timely and effective product rollouts.

The company's wireless group brings exceptional radio system design experience, to ensure compliance with strict regulatory requirements. In addition, its highly competent software and

signal processing design teams are skilled at rapid development of complex yet reliable systems, as well as having an unmatched ability in enhancement and modification of extensive legacy code. This, combined with highly professional hardware engineering and PCB design management, ensures an extremely high quality product.

Iridium continues to produce market-leading sales growth figures which are driven in large measure by our outstanding range of quality subscriber access products and the flexibility we have in responding to evolving user requirements. The outstanding support we get from Cambridge Consultants is a critical component in our success.