

PARADIGM

CUSTOMER PROFILE

Paradigm is a satcom solutions provider based in the United Kingdom. The company's mission is to make the world's most advanced satcom, simple. At the heart of Paradigm terminals lies the AI-powered Paradigm Interface Module (PIM®), providing exceptional versatility across various frequency bands, constellations, and networks. This allows users to benefit from unmatched redundancy, enabling effortless transitions between different software-defined profiles at the touch of a button.

We spoke to Ulf Sandberg, Managing Director at Paradigm, to learn more about the real-world applications of their PIM-enabled terminals.

In the current evolving global landscape, how are Paradigm's terminals supporting critical communication needs?

The demand for reliable and flexible communication solutions has never been higher. The deployment of our PIM-based terminals, often in GPS-denied environments, highlights that connectivity in all areas is crucial. The effortless switch between multiple networks without hardware changes, ensures constant communications even in contested areas. The rapid deployability of these manpack terminals – assembled, pointing and on the satellite in well under 5 minutes – increases their value particularly in emergency situations. The evolution of satellite technology, including advancements in LEO/MEO systems, AI-driven and SD WAN solutions predicts a greater reliance on satcoms in the future, pushing the need for versatile terminals like ours.

How is end-user accessibility ensured by your PIM-based advanced terminal technology?

Satellite communications can often seem complex and overwhelming, especially with a growing presence of AI, cloud services, and increasing network diversity. Our focus is to make advanced technology simple and without compromise. With the seamless integration of multiple modems including the ST Engineering iDirect 950mp modem, we've developed the PIM terminal controller to act as a universal solution across various frequency bands, terminal models and modem types. Technical expertise is not a requirement when users can easily switch between different satellite network configurations with the touch of a button. Moreover, we prioritise user feedback by regularly engaging with our customers to ensure that the products we develop continue to meet their needs for real-world applications. Our goal is to deliver advanced products that are user friendly, ensuring maximum high-speed comms in all environments.

Paradigm was recently named in The Sunday Times 100 Tech. What is behind this success?

To be recognised in the top 50 of hardware tech companies stems from a combination of commitment to customer-centricity and innovation. As in-house designers and manufacturers, we can quickly bring customised solutions to market and tailor our products to meet end user requirements. This capability means we can respond rapidly to changing needs and deliver reliable, user-friendly solutions for a variety of communication environments and needs. Therefore, Paradigm's focus on simplicity, combined with our ability to provide bespoke solutions, and great partner relationships, including with ST Engineering iDirect has been key to our ongoing success and recognition.

BRAND NEW RAGNO

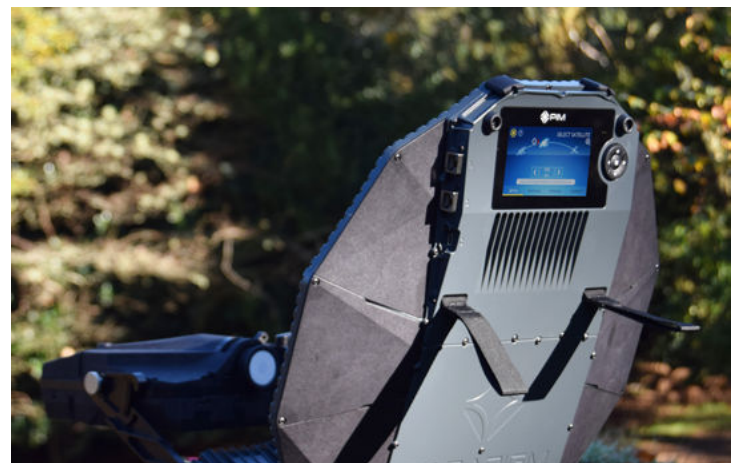
The new, field proven, PIM-powered terminal designed with end users, for end users.

Paradigm is proud to announce the launch of RAGNO, the next-generation satellite communications terminal designed for unparalleled performance, mobility and simplicity. Weighing only 7.5kg, RAGNO is the ultimate PIM-based iDirect 950mp modem integrated solution for users who need quick, secure and reliable satellite connectivity on the go.

Developed in collaboration with end users, RAGNO meets requirements for in-field operation. RAGNO is a compact, quick deploy terminal that comes in a covert backpack, allowing users to set it up in just 30 seconds and be connected in less than 2 minutes. With its cutting-edge design and universal PIM system, RAGNO is built to support multiple frequency bands, including Ka/Mil-ka and Ku, making it a versatile solution for both government and commercial applications.

- **High speed, multiband terminal (Mil-Ka /Ka, Ku)**
- **Rapid tool-free setup, on air <2 mins**
- **Single piece design - No need to assemble/disassemble for packing**
- **Best in class RF performance**
- **Field-changeable RF and modem cartridges**
- **Airline carry-on: backpack / single case (IATA compliant)**
- **FIPS 140-2 Level 3 TRANSEC security**

For more information visit
www.paracomm.co.uk





HORNET

A ruggedised, quick-deploy terminal supporting multiple frequency bands.

Powered by the innovative PIM, it provides a simple point-and-use operation, optimising size, weight, and power considerations without compromising on performance. The terminal's versatility allows users to easily switch between commercial and military-grade satellite networks, ensuring reliable, high-speed communications across diverse operational scenarios.

Ulf Sandberg, Managing Director at Paradigm, said: "The HORNET terminal's WGS certification demonstrates our commitment to providing cutting-edge solutions for our government customers. By combining our PIM technology with WGS capabilities, we deliver high-throughput, secure communications in a compact, user-friendly package."

The HORNET's design prioritises ease of use and its high efficiency achieves an increased signal strength that rivals larger terminals, making it an ideal choice for users who require powerful performance in a rugged design.

- **High speed multiband terminal (Mil-Ka, Ka, Ku, X-band)**
- **Field-changeable modules**
- **80/100cm reflectors**
- **RF (up to 100W supported)**
- **Military-proven ruggedness**
- **Rapid tool-free setup and on air <5 mins**
- **IATA-compliant single transport case**
- **FIPS 140-2 Level 3 TRANSEC security**

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PIM (PARADIGM INTERFACE MODULE)

The Intelligent Terminal Controller.

The PIM is a flexible, intelligent terminal controller compatible with various antenna sizes, frequency bands, and RF types. It integrates seamlessly with multiple modems, including the ST Engineering iDirect 950mp modem, offering easy switching between networks and enhancing communication reliability through built-in redundancies. The PIM supports geolocation inputs like Auto GNSS, External and Manual GPS, and can be configured remotely or locally, providing exceptional flexibility in satellite operations.

Designed for rugged environments, the PIM's IP67-rated, glove-friendly touch screen offers full control over terminal configurations without the need for a laptop. User-defined profiles allow for quick switching between networks with a simple button press. This, combined with secure cloud management and software-defined capabilities, makes the PIM an ideal solution for both government and commercial satellite communications.

- **Easy satellite selection, any constellation, any band, anywhere**
- **Seamless, one-button configuration switching:**
 - » **Internal modem configuration, including GX/ Velocity / Evolution (both ways) user profiles**
- **Support for external modem operation, maintaining simple AI-assisted terminal pointing**
- **Secure by design, offering FIPS 140-2 Level 3 TRANSEC and anti-tamper device locking**
- **IP67 rated, MIL-STD-810G for vibration, shock, salt fog, sand & dust, humidity and driving rain**
- **Alternate geolocation input options, including Auto (GNSS), Manual and External GPS (USB)**
- **Real-time local and/or remote configuration management (optional Secure Cloud service)**
- **Automatic dataport VLAN profiling with optional Wi-Fi connectivity**
- **Network diversity from an extensive satellite database**
- **Multiple, integrated power input modules**

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PIM950