PARADIGM

CUSTOMER PROFILE

Paradigm is a satcom solutions provider based in the United Kingdom. Paradigm's mission is to make the world's most advanced satcom simple. With the AI-driven Paradigm Interface Module (PIM) at their core, Paradigm terminals are incredibly flexible, operating across multiple frequency bands, constellations and networks. These terminals include the single case HORNET and the ultraportable SWARM. Created after a long history of working with ST Engineering iDirect, Paradigm have again shown their market leadership with their offering: the PIM950. Enabled by ST Engineering iDirect 950mp modem, the PIM950 gives the user an unparalleled flexibility by allowing them to move seamlessly between different software defined profiles at the touch of a button.

We spoke with Ulf Sandberg, Managing Director at Paradigm, to find out more about how the company's PIM enabled terminals are being deployed today.

What is happening in terms of demand for your PIM-enabled terminals in light of current global challenges?

We are seeing a huge demand for our terminals in response to the ongoing challenges around the globe and are very proud that users are leveraging our technology to make a difference in some of the most challenging and contested environments that the world has ever seen. In particular, the ability of the HORNET and SWARM to switch between networks and constellations without any hardware change has been a game-changer, giving the user the multiple redundancies that they need to always have access to high-speed comms. The fact

that both of these terminals are quickly deployable from single cases in under 5 minutes is also driving demand – in the case of an emergency keeping down size, weight and power is crucial. Moving forward, we see the need for satcom increasing fast, with more and more satellites being launched and with exciting technologies like LEO/MEO satellites, AI and the Secure Cloud making headlines.

How do we make sure cutting-edge technology is accessible to the modern end user?

Modern technology is incredibly complex, with things like Artificial Intelligence and the Secure Cloud beginning to dominate the modern world of C4ISR. Within satcom specifically, it is also very fragmented, with different proprietary stakeholders using technologies that are not compatible with one another. At Paradigm, our aim is to take a communications terminal and make it as simple as possible for the user at the point of use, whilst maintaining all the advantages that modern tech brings and whilst also staying interoperable across many different systems. Our solution to this is the PIM950 terminal controller, a single unit that is common across frequency bands, operational profiles, modem types and even terminals. On ST Engineering iDirect networks, this means the ability to switch between Evolution and Velocity at the touch of a button.

Beyond the technology itself, it is also vitally important that we listen to the needs and desires of the modern end user by engaging with them directly. It is only with a user-centric focus that we can be sure that our terminals deliver what is needed for the modern communicator.

HORNET

- High speed multiband terminal (Mil-Ka, Ka, Ku, X-band)
- Field-changeable modules
- 60/80/100/130cm reflectors
- RF (up to 100W supported)
- Field-proven ruggedness
- Rapid tool-free setup and on air <5 mins
- IATA-compliant single transport case
- FIPS 140-2 Level 3 TRANSEC security

SWARM®

- High speed flat-panel multiband terminal (Mil-Ka, Ka, Ku, X-band)
- Unrivalled SWaP vs performance
- Rapid tool-free setup and on air <5 mins
- Field-changeable RF head panels
- Military-proven ruggedness
- Airline carry-on: backpack / single case (IATA compliant)
- FIPS 140-2 Level 3 TRANSEC security

PIM® (Paradigm Interface Module)

- Easy satellite selection, any constellation, any band, anywhere
- Network diversity from an extensive satellite database
- 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
- Multiple, integrated power input modules
- 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)
- Automatic dataport VLAN profiling with optional Wi-Fi connectivity
- Real-time local and/or remote configuration management (optional Secure Cloud service)

For more information visit
www.paracomm.co.uk