ROKE

EM-Vis Deceive

SOSA™ Aligned Person-Borne Multi-Functional CEMA Platform

EM-Vis Deceive is the EW platform for the new frontier of Electromagnetic Warfare. Tailorable to mission, modular and open-standards based, and customer-definable frequency coverage all combined to bring your dismounted EW operations into the future.

Adaptable, agile, innovative – Roke's EM-Vis Deceive is the first-in-class Person-Borne full-system bringing Electromagnetic Attack where it wasn't before; on the move and on the ground.

A ruggedised OpenVPX™ chassis provides capacity for two SOSA™ aligned 3U plug-in modules for mission adaptability and through life enhancement, interconnected through a high-speed backplane topology.

The Internal RF switching network is augmented with two interchangeable RF Conditioning Modules, providing two independent radioheads that can be tailored to mission specific application requirements or fitted with multi-purpose wide-band power amplifiers; supporting a broad range of CEMA use cases and deployments.

BENEFITS & FEATURES

- Multi-function modular open software and hardware for reduced integration risk and deployment time
- Two SOSA™ aligned OpenVPX payload slots
- Integrated Position, Navigation and Timing features
- Integrated high speed networking (up to 40GbE)
- Modular RF design and configurable radioheads
- Pre-qualified SDR available for Roke or customer OpenCPI Application integration
- Integrated chassis management and interfaces
- Scalable RF power up to 20 W per radiohead
- STICS aligned

CUSTOMISABLE OPTIONS

- 3UVPX SOSA SDR or other compatible payload
- External 10GbE interface (10GBase-SR)
- High accuracy timing reference (chip scale atomic clock)
- Inertial navigation unit
- Tailored Radiohead configurations - contact us for details
- Alternate power source (LIPS battery, DC to MIL-STD-1275)
- Enterprise interfaces support (SOSA, MORA, AOCO, CESMO)
- Customisable antenna options

Contact us to find out about the customisation options for EM-Vis Deceive.

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Key Specifications - *subject to completion of testing or change depending on system configuration*	
Size	< 300 x 300 x 100 mm
Unit Mass	< 10 kg (excluding payloads)
Input Power Supply	18-36 Volts DC (battery, vehicle option)
Power Consumption	Application and payload dependent: 2 x Integral 150W power supplies
RF Configuration (2 x Radiohead)	Integral RF Distribution 20 MHz-6 GHz
Power Amplification	2 x 20W
RF Bandwidth	2 x 100MHz (Subject to SDR Payload)
Antenna Interface	N Type
PNT	Integral multi-GNSS receiver (CSAC and INU option)
Standards Alignment	VITA 46.0, VITA 65.0, VITA 67.3 AECTP 300 (climatic), AECTP 400 (mechanical), AECTP 500 (EMC) - contact us for details STICS
Cooling	VITA48.2 conduction cooled payloads,forced air-cooled chassis (contact us for other options)
Operating Temperature	Operating: -32 to + 55°C Non-operating: -40 to +70°C

OPEN ARCHITECTURE

Roke has developed EM-Vis Deceive around open architectures to maximise hardware and software portability. Offering customers vendor neutrality, mission and commercial flexibility. As well as opportunities to optimise system performance for mission specific use cases while maintaining a flexible common user experience. This is founded on mission proven open standards that enable rapid technology insertion for reduced development to deployment timescales.

SOSA Sensor Open Systems Architecture · OpenVPX™ · VPX REDI™ · Open CPI

EXPERTS IN ELECTROMAGNETIC WARFARE

Roke has been at the forefront of CEMA technology for over 40 years. This experience has been integrated with technology gained from small form factor radio system development to produce a highly agile system in a modest package, with a range of integrated support functionality. The EM-Vis Deceive system provides flexibility to deliver complex, electromagnetic effects in demanding environments, whilst also enabling hardware and software upgrade paths without vendor lock-in.

For more information on EM-Vis Deceive and our other CEMA capabilities, please contact: **emvis@roke.co.uk**

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