# C4, CEMA and ISR Solutions

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Connecting the CRENIC Ecosystem

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# Connecting the CRENIC Ecosystem

Flexible CEMA, C4 and ISR solutions connecting the technology of today with the capabilities of tomorrow

#### Any Signal - Anywhere

All types, modulations and classifications of signal can be carried on a single, compact RF over fibre cable - saving you space and improving efficiency.

Fibre is impervious to interference from other electromagnetic signals and, as it can be part of a distributed network, you get flexible optical routing, distributed processing and antenna remoting.

### **Technology Agnostic Solution**

RF over fibre solutions integrate with your existing hardware, so it's your perfect first step into the open standards ecosystem.

Today's radio solutions already have a standardised interface - the analogue output port. This means the technology agnostic RF over fibre integrates quickly and easily, as well as allowing you to integrate future technology and equipment from other suppliers at any point.

Simultaneously ready your systems for the future and ease your current Vehicle Integration Kit (VIK) challenges.

Your route to the future starts with PPM Systems.

Keeping you agile and adaptable in the changing face of electronic warfare and global engagement



Remote Antenna Platform (RHD)



#### **Optical routing in the field**

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For lossless optical routing in a COTS modular solution, foton-X replaces traditional RF matrix solutions with a distributed optical network of components; minimising loss, cross-talk, gain slope and latency.

The solution is scalable after installation, offering flexibility in the RF Conditioning and Distribution (RCD) of a MORA communications system.

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#### **Applying Open Standards** Rapid global technological change and advancement is putting defence

CEMA, C4 and ISR equipment programmes under intense pressure. Adapting quickly to the new technological developments is vital to maintain strong force protection.

PPM Systems is meeting these challenges with the development and application of commercial-off-the-shelf (COTS) equipment, governed by a suite of open standards. The future is a cohesive and streamlined ecosystem, integrating equipment together to expand capability and advance force protection.



Actively involved in seeding, developing and maturing open standards for connecting the future ecosystem.

PPM Systems has a proven track record of using COTS and open standards alongside successful collaboration with third parties.

The expertise of a consultancy with the practical solutions of a supplier - all in one!

### **Technical Expertise**

The best of both worlds; expert knowledge and advice of a consultancy with the technical knowledge and results-driven application of a manufacturer.

Collaboration under the CRENIC ecosystem naturally gives an even greater sharing of knowledge and expertise, benefiting the user.

#### System Design

PPM Systems understands the RF and optical domains inside and out, with system design experts to help you plan your optimal system.

Once optimised, you can accurately see the performance and functionality the system will deliver in the field, using an accurate simulation engine developed by PPM.

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RF over fibre

**Optical Routing (RCD)** 

MORA **OpenVPX JCID 4.2 GVA OpenCPI** 

#### **COTS** Expertise

Working with CEMA, C4 and ISR system integrators, PPM is delivering future-proof solutions that can guickly and easily be upgraded throughout their service life, without replacing the whole system.

#### Signal analysis in the field

Crossbow from PPM Systems is a prominent example of how open standards will benefit real systems.

In the early stages of the ecosystem, we blended COTS equipment from BAE Systems and Multiple Access Communications under the evolving open standards to create a software defined scanning and decoding system that gives actionable, realtime, mission critical data when you need it.

This seamlessly integrated platform is evolving to keep pace with the future and demonstrating our history of driving the development of open standards.

Signal Analysis (SDR)



RF over fibre

## Collaboration is Strengthening FP ECM

Highly capable Electronic Counter Measures are being developed through strong collaboration, delivering the future of Force Protection

#### Flexibility

Connecting any signals from any system allows flexible and effective operation; opening up a wide variety of technologies for your applications.

Easily use hardware from any supplier, minimise repetition, and maximise capability today and for the future!

#### Futureproofing

RF over fibre solutions easily integrate with both the hardware you have today and technology in the future ecosystem.

This is only possible through strong collaboration, bringing together MOD and industry.

#### Expertise

Shared expertise leads to greater results. Under the open standards, strong collaboration will become normal practice.

This gives you a higher tier of capability across your systems and the ability to upgrade quickly and easily at optimal cost.

#### Integration

System Integrators need the best technology available to users, backed up by expert support in operation. PPM Systems delivers this, with a proven history of strong collaboration and expertise in the field of optics.

OPEN STANDARDS ARE HERE Get ahead by speaking to the experts today:

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