



Information Assured

Cryptographic Solutions

Ultra's proven cryptographic expertise is founded upon a track record that extends back over 60 years enabling us to provide innovative solutions to meet a range of requirements for secure communications systems.

Ultra is a wholly UK owned company who provide innovative high grade cryptographic solutions and products to customers across the land, maritime and air domains.

Ultra has been designing, developing, manufacturing and supporting secure communications equipments since the 1950s, making Ultra one of the most trusted and respected cryptographic systems providers in the world.

As a result Ultra has built up an enviable track record in the provision of certified End Cryptographic Units (ECUs) and key management technologies to both national and international customers.

Ultra is currently supporting crypto modernisation initiatives in both the UK and the US, delivering the next generation of high grade programmable cryptographic devices into service.

In addition to the supply of interoperable cryptographic products to customers within NATO, Ultra has significant experience in the development of secure system architectures and the integration of cryptographic equipment onto platforms such as Tornado, Merlin, Nimrod and UK Watchkeeper.



The C3

KG-40AR



UAV Encryption

Communication & Integrated Systems

Ultra
ELECTRONICS

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The Common Core Crypto (C3)

Ultra's latest accredited offering is the UK sovereign C3 high grade programmable cryptographic module providing voice and data communications security to the BID/2510 family of cryptos contracted under the UK MoD's ECU Replacement Programme (ECU RP) .

The C3 is an IP enabled module that meets both legacy and future interoperability standards, protocols and algorithms.

The C3 is a small form factor crypto that when integrated into a Application Specific Enclosures (ASEs) provides modern high grade cryptographic capabilities over legacy interfaces; enabling the replacement of legacy equipment without the need for modification to platforms or installations. The C3 can also be integrated into modern ASEs to meet new and future requirements ensuring maximum return on investment and enabling significant platform savings relating to size, weight and power.



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Key Management Technologies

Ultra is currently delivering a number of key management solutions to provide electronic ordering, distribution and accounting of key material. This includes a contract to provide the next generation of ruggedised tactical key fill devices to securely facilitate the 'last mile' delivery of electronic key.

Ultra is actively engaged in developing the future key management and distribution standards in partnership with industry, Government and academia.

Crypto Integration & Installation (I&I)

Under the ECU RP, Ultra is providing device I&I to a wide range of platforms, systems and sites throughout UK MOD.

I&I will see First of Class installations across 19 Maritime platforms from the smallest River Class ships to the Queen Elizabeth Aircraft Carrier in addition to a number of air platforms.

I&I will ensure that the current legacy interoperability is maintained with the ability to migrate seamlessly to modern interoperability in the future.



The Common Core Crypto (C3) family

Secure Communications On Tornado (SCOT)

Ultra's SCOT solution provides enhanced data and communications security to the UK's Tornado fleet to enable secure voice communications between flight crew, ground crew, other platforms, ground authorities (including ATC) and forward tactical elements. All new equipment was required to be integrated with new cryptographic devices to satisfy a number of recent aviation directives.

UAS Datalink Encryption

Ultra has proven technology for encryption that operates within our datalink systems for Unmanned Vehicles. This includes high grade encryption utilising specific cryptos, and lower grade options incorporating cryptographic algorithms in our signal processing.

The KG40AR

The KG-40AR is a 'form, fit and function' replacement for the now obsolete KG-40A cryptographic equipment that encrypts situational awareness information transmitted between NATO and coalition forces. The award of this contract to Ultra was the first ever procurement of a Type 1 cryptographic system by the US DoD from an offshore company.

The KG-40AR is based upon Ultra's BID/2200 cryptographic module, approved by CESG and NATO.

Ultra Electronics reserves the right to vary these specifications without notice.

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