



# Product Announcement

**Cobham Antenna Systems**

**Microwave Antennas**

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## **Cobham Announces Dual-Polar 'White Space' UHF Sector Antenna**

Cobham Antennas Systems, Microwave Antennas (Cobham), a leading antenna producer, has developed a dual-polar UHF sector antenna for use in the 'White Space' frequency bands. This is the first product in a range of similar dual-polar base station antennas, which will be available from Cobham soon, in 2GHz, 3GHz and 5GHz bands.

Cobham's wideband SA11-90-0.6VH/2178 antenna provides both vertical and horizontal polarisations. In conjunction with radios, having two-port diversity, it can provide non-line-of-sight (NLOS) connectivity and reliable communications in challenging environmental conditions.

The SA11-90-0.6VH/2178 antenna covers the entire frequency range 470-700MHz, meaning that it can be used in situations where a number of channels are spaced widely apart. With fewer antennas needed, operators and installers will incur lower inventory and installation costs.

The 'White Space' frequency band has been opened following the discontinuation of analogue television transmissions in some countries. The available frequencies have been allocated for both licensed and unlicensed uses producing exciting opportunities in long distance communication.

The UHF band is recognised for the ability to provide communications over large distances; across remote regions of land or sea; and good penetration in built-up areas. The band offers high data rates, making it extremely suitable for machine to machine (M2M) applications.

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Having high gain (11dBi peak) and wide area coverage, with a 90 degree beamwidth the SA11-90-0.6VH/2178 antenna can be used stand-alone to provide sector coverage. Used in a configuration, four units are required to achieve 360 degree coverage. With appropriate power dividers and phase-matched cables, several antennas could also be stacked vertically, producing a narrower elevation beamwidth and increased gain. These are available from Cobham.

Cobham has integrated both sets of the polarised elements within the same vertical aperture producing a compact, lightweight and rugged antenna. With a UV resistant radome it is designed for long term deployment. Having dimensions of 1550 x 550 x 232mm and approximate weight, including mounting kit, of 20kg, this means shipping costs can be reduced and ease of installation increased.

For more information please contact Cobham Antenna Systems, Microwave Antennas:

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### **About Cobham plc**

Cobham protects lives and livelihoods with its differentiated technology and know-how, operating with a deep insight to customer needs, and agility. The Group offers an innovative range of technologies and services to solve challenging problems across commercial, defence and security markets, from deep space to the depths of the ocean. It has market leading positions in air-to-air refuelling; aviation services; audio, video and data communications, including satellite communications; defence electronics; life support and mission equipment. The most important thing Cobham builds is trust.

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### **About Cobham Antenna Systems**

For more than 60 years Cobham Antenna Systems has been a leader in the design and manufacture of communication systems and antennas. Innovative communication, navigation, jamming, electronic warfare, telemetry and radar antennas serve commercial aviation manufacturers and operators, defence contractors, emergency response organisations and law enforcement agencies. Advanced antenna technology for satellite communications, avionics, radar and surveillance applications connect military and commercial aircraft, naval vessels, vehicles and mobile teams with the world through high-speed data, voice and video. Cobham also has a wide range of standard, composite masts, antenna pointing devices, and vehicle mounting systems and high performance composite structures and products for the aerospace industry, radomes and aircraft components, high temperature aircraft engine products, rotorcraft blade components, unmanned aerial vehicle airframes and sub-components. Cobham Antenna Systems is a leading supplier of flat plate array antennas, standard and custom passive RF components and assemblies, and specialised microwave and electro-mechanical rotating devices. These include RF rotary joints, gear-driven pedestals and RF rotating subsystems used in military and air traffic control radars, and telecommunications systems.

### **About Cobham Antenna Systems, Microwave Antennas, Newmarket**

European Antennas Ltd trading as Cobham Antenna Systems, Microwave Antennas is a British company based near Newmarket, Suffolk. They are specialists in the design and development of high quality antennas used for defence, security, satellite and commercial communication systems. More than 60% of production is exported. Antenna development projects are undertaken.

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