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Alpha Micro Expands Cellular Antenna Offering with Taoglas Embedded Hepta-band Flexible Circuit Antenna

Ideal for Tracking, Metering, Automotive and Telemedical Applications



Now available from niche distributor, Alpha Micro Components (www.alphamicro.net) is the Taoglas (www.taoglas.com) FXP.14 antenna, a flexible circuit GSM/cellular antenna that is 'ground-plane' independent measuring 70mm x 20mm in size. It is suitable for machine-to-machine (M2M) devices used in tracking, navigation, automotive and telemedical applications that require an embedded antenna solution.

Further extending Alpha Micro's antenna portfolio, the FXP.14 delivers higher performance than traditional embedded 'off-the-shelf' antennas. It is designed to be mounted directly onto the product casing saving valuable design space and creating extra clearances for the antenna to radiate. A reference housing and PCB was used to design the antenna in order to predict real-life deployment. It has been designed using innovative design techniques making this off-the-shelf antenna suitable for many devices that previously needed costly customisation.

As it has its own ground-plane and over 50% antenna efficiency, the FXP.14 delivers more effective network connection. Its high sensitivity means connection can be sourced in low signal areas and is also suited to devices that require higher data throughput rates. Efficient antennas like the FXP.14 allow devices to benefit from lower power consumption and enhanced transmission. The FXP-14 enables quick network approval

turnaround and a lower probability of radiated spurious emission, allowing for a quicker and inexpensive route to market.

The FXP-14 hepta-band antenna delivers an impressive efficiency of over 50% on all cellular bands 850, 900, 1700, 1800, 1900, 2100 MHz for GSM, CDMA, DCS, PCS, WCDMA, UMTS, HSPA, GPRS and EDGE. It also features 1575MHz for cellular or CDMA modules with AGPS where enhanced 911 is a requirement. Covering all worldwide cellular markets, the FXP-14 is compatible with the complete range of M2M modules and is particularly suited to those that require a connector.

The FXP-14 antenna uses the same design technique found in most high-end mobile phones and can be placed directly on the underside of the device. Its flexible substrate is conformable to the curves of the housing and has an extremely low profile of only 0.1mm in depth.

Dermot O'Shea, Director at Taoglas, commented: "Most off-the-shelf antennas lead to poor performance with little chance of gaining official network approvals in the US and worldwide. The FXP-14 has been designed using new techniques, making this off-the-shelf antenna suitable for many devices that previously would have needed costly customisation."

Christos Papakyriacou, Managing Director at Alpha Micro, said: "The FXP-14 antenna further complements our extensive range of GPS, GSM and GPRS antennas. Building on our expertise in this area with this high quality product that is compatible with a vast realm of M2M devices, we will be able to offer our customers even greater choice."

The FXP-14 embedded hepta-band flexible circuit antenna comes complete with a cable and connector for ease of integration and is now available from Alpha Micro Components. For more information please contact: Alpha Micro Components, Springfield House, Cranes Road, Sherborne St. John, Basingstoke, Hampshire, RG24 9LJ. Tel: 01256 851 770, Fax: 01256 851 771 Email: sales@alphamicro.net, or visit <http://www.alphamicro.net>

To download a high resolution version of the image, visit:
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Notes to Editors

About Alpha Micro Components (www.alphamicro.net)

Founded in 1995, Alpha Micro is a successful independent specialist franchised distributor focusing on the M2M market servicing the Telecoms, Datacoms, Security, Electronic Point of Sale (EPoS) and Machine to Machine (M2M) sectors with components from world-leading manufacturers. Its franchised product lines include Lantronix, u-blox, Sierra Wireless, Sagem, Teridian Semiconductor and the company's own 'AMC' range. Alpha Micro has built an enviable reputation offering excellent customer service and innovation.

What really sets Alpha Micro apart from the competition is its design-based approach to distribution and in-depth product knowledge in the markets it serves.

About Taoglas (www.taoglas.com)

Taoglas, the leading M2M antenna provider, delivers an extensive range of automotive, tracking and remote antenna solutions. Taoglas also provides full wireless devices services including; antenna and device RF consultancy, custom antenna design, device noise debugging and testing services, and device certification and approval. Founded in 2004, Taoglas has offices in Ireland, Taiwan, South Africa and USA. Taoglas' antenna design and development is carried out by Taoglas in Ireland, USA and Taiwan with production managed through Taoglas Taiwan. Taoglas customers include top-tier automotive, tracking, metering and medical companies worldwide.

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