

PRESS INFORMATION

From TMD Technologies Ltd – now part of Communications & Power Industries

Preview for:

AOC Europe 2021

Exhibition Centre Liverpool

Kings Dock, UK

12-13 October 2021

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TMD on Stand B0 at AOC Europe

Showing a selection of its innovative microwave products - including a new solid state Microwave Power Modules (MPM)!

TMD Technologies Limited (TMD – now part of Communications & Power Industries LLC (CPI)) - a leading West London based manufacturer in the microwave and radio frequency (RF) field, will be showing a representative selection from its portfolio of cutting-edge products for defence and homeland security systems. Included will be the new PTS10147 solid state power amplifier (SSPA) for EW and radar, and the PTXM2000 microwave power module (MPM) for high performance radar and ECM systems.

“Because of Covid-19, the AOC Europe exhibition has been postponed several times,” said Nigel Hann, TMD’s sales director, “We are looking forward to finally being at the show in Liverpool in October and meeting up with some of the many visitors - ranging from military personnel with wide EW expertise, to government decision makers.”

On TMD Stand B0

New PTS10147 solid state, high power MPM for EW and radar

TMD has recently introduced a new solid state power amplifier (SSPA) to its range of microwave products for defence, EW and radar applications.

Compact and lightweight, the new broadband PTS10147 operates over the 2-6 GHz frequency range with a high power of 100W (pulsed or CW) and a linear gain of up to 60dB.



The new PTS10147 offers highest power-to-volume ratio.

The excellent power performance and very compact and lightweight construction of the PTS10147 has been achieved by employing gallium nitride (GaN) high power transistors in the output and driver stages. This design provides the benefit of a power-to-volume ratio that is believed to be the highest on the market for such a product.

The PTS10147 is particularly effective in electronic attack (jamming) roles. Moreover, its small size and lightweight - combined with high power - means that it is ideal in radar or EW installations used in UAVs, drones, or man-portable systems.

PTXM2000 – for systems requiring higher power

The broadband PTXM2000 operates from 6-18 GHz at 200W. Comprising a high-power 'super-mini' travelling wave tube (TWT), a solid-state preamplifier, and switched mode power supply, the PTXM2000 offers a single 'drop-in' microwave amplifier unit without the need for potentially unreliable high-voltage TWT interconnections.

Included in the MPM is a high-speed focus electrode modulator to permit operation at high-pulse repetition frequencies (PRFs), making it ideal for pulsed applications such as electronic counter measure (ECM) and radars. A low gain TWT, together with a low noise solid state preamplifier provides optimum noise performance. The PTXM2000 operates over a wide temperature range, and at high altitudes and humidity.

A selection of TWT-based PTXM series ultra-compact MPMs

Offering very low volume and light weight, TMD's TWT-based PTXM Series MPMs are designed for airborne radar, electronic warfare (EW) and communications and are ideal for unmanned aerial vehicles (UAVs). They operate over the 4.5-18 GHz range with output powers up to 140W. Incorporating mini TWTs and super efficiency packaging, they offer one of the highest power densities on the market today.

Transponders

TMD offers a range of in-house designed and manufactured radar transponders and support equipment for radar applications that include UAVs, missiles, and manned aircraft.

At the show

TMD will have sales and marketing personnel representing multiple geographic regions available to meet with customers at the show.

For more information, please contact TMD UK wecare@tmd.co.uk or TMD US info@tmdus.com.

ENDS



About Communications & Power Industries

Communications & Power Industries (CPI) is a global manufacturer of electronic components and subsystems focused primarily on communications and defence markets. With a heritage of technological excellence that spans decades, CPI develops, manufactures, and globally distributes innovative and reliable technology solutions used in the generation, amplification, transmission and reception of microwave signals for commercial and military applications. Learn more about CPI at www.cpii.com.

TMD Technologies Limited – the leaders in scientific and technical microwave and RF innovation



TMD's headquarters design and manufacturing facility in West London, UK.

With a heritage dating back to the 1940s, TMD Technologies Limited (TMD) is a world-class designer and manufacturer of professional microwave and RF products. At the company headquarters in Hayes, West London it produces specialised transmitters, amplifiers, microwave power modules (MPMs), high-voltage power supplies, microwave tubes and transponders for radar, EW and communications applications. A previous twice Queen's Award winner, it also produces a range of advanced instrumentation microwave amplifiers for EMC testing, scientific and medical applications.

TMD is also making on-going and substantial investment in the development of quantum-enabled technology under the UK National Quantum Technologies Programme (UK-NQTP).

Recently, TMD has expanded their investment in the Solid-State Power Amplifier MPM space through a partnership with Diamond Microwave LTD, and now has SSPA MPMs available with various output power options from UHF through Ku band.

TMD Technologies, LLC, USA



Leader in scientific, professional microwave and high-power RF innovation

TMD Technologies, LLC is the US subsidiary of TMD Technologies Limited. Based in Baltimore, Maryland, it provides complete technical and commercial support to TMD's customers in the USA and offers a comprehensive product repair centre.

The Sales and Business Development team is engaged with promoting the whole range of TMD's products, as well as identifying new business development opportunities in the United States.

For further information and digital images please contact:

Chetna Wagjiani, Marketing Manager
TMD Technologies Ltd
Tel: +44 (0)20 8581 5116
Email: chetna.wagjiani@tmd.co.uk
Website: www.tmd.co.uk

Tom Curtin, Vice President Sales & Business Development
TMD Technologies, LLC (USA)
Tel: 410 242 4290
Cell: 443-745-0822
Email: tom.curtin@tmdus.com
Website: www.tmdus.com

Amanda Mogin, Communications & Power Industries, Corporate Communications
Communications & Power Industries LLC (USA)
Tel: +1 650 846 3998
Email: amanda.mogin@cpii.com
Website: www.cpii.com

TMD Technologies Limited, Swallowfield Way, Hayes,

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TMD Technologies Ltd

Greater London, UB3 1DQ, UK



+44 (0)20 8573 5555



Registered Office
Swallowfield Way, Hayes,
Middlesex, UB3 1DQ, UK
Registered in England No. 00952502



wecare@tmd.co.uk
www.tmd.co.uk