

PRESS INFORMATION

Preview for:

IDEF 2019

Istanbul, Turkey

30 April - 3 May 2019

TMD again takes stand space at IDEF International Defence Industry Fair, Istanbul - to showcase its latest product including high efficiency MPMs, and advanced Ka band microwave amplifiers.

TMD Technologies Limited (TMD) – a world class West London based manufacturer of advanced microwave and RF products – will be again be exhibiting at IDEF, on Stand 226E in the ADS UK pavilion.

At this key event TMD will be showcasing a representative selection from its wide range of microwave products for air, land and sea defence applications.

Stuart Love, TMD's Senior Sales Manager, UK and Europe said: "Our presence at IDEF 2019 underlines the company's on-going commitment to its expansion and commitment in Turkey and further afield. Turkey is proving an exciting market for us, and having a stand in the ADS UK Pavilion maximises our opportunities for more high level contacts, leading to further business development and consolidation in this important market area."

TMD Spotlights: NEW ultra-high efficiency amplifiers for radar - offering over 50% efficiency improvement over earlier TMD products.



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TMD has recently added two new amplifiers to its PTX range of microwave power modules (MPMs) for radar, EW and communications.

Operating in the X band, the new travelling wave tube (TWT) based PTX8430 and PTX8501 offer ultra-high efficiency, providing more than 50% improvement over the previous models. TMD has achieved this impressive performance by matching high efficiency TWT technology with TMD's ultra-efficient power supply topology.

Designed for high power radar applications, on land, sea or air, these new MPMs have a power output of 1 kW over the frequency range 9-10 GHz - with duty cycles of 5 and 10% respectively and 55 dB gain.

New TWT based Ka band MPMs on show – and other advanced TWT based and solid state microwave products, plus radar transponders.

At IDEF 2019, TMD's product portfolio offers advanced microwave engineering solutions for a host of defence and security applications and requirements, including:

For simplified integration, in the challenging Ka band – the PTX8807

This new MPM features simplified integration for high performance EW and radar systems and provides an output power of up to 200 W over a 30-40 GHz range. Comprising a high-power Ka band helix TWT and switched mode power supply it forms a single 'drop-in' unit without the need for high voltage connections.

For higher power EW and radar systems – the PTX8110

The new PTX8110 operates from 6-18 GHz at 200 W and, with its compact design, is easily integrated into those high performance EW and radar systems requiring higher power. Comprising a high-power helix TWT and switched mode power supply, like the PTX8807, the PTX8110 forms a single 'drop-in' amplifier unit.

For broadband capability – the PTX8815

The new PTX8815 TWTA is designed for Ka band radar applications such as naval fire control. Featuring broadband capability, covering 34–36 GHz, it offers a peak power of over 1100 W in the mid-band, and 600 W at the band edges with a maximum duty of up to 12%.

For advanced solid-state performance – the PTS6900

TMD's solid state PTS6900 MPM employing advanced GaN MMIC technology, and offers high performance over a 2-6 GHz range with an output power of 150 W. It is designed for fast integration into EW/ECM systems, and has a predicted 30,000 hours MTBF in an airborne uninhabited fighter environment.

For ultra compact design, with highest power density - the PTXM Series

For airborne radar, EW and communications, the PTXM Series ultra-compact MPMs feature low volume and low weight and are ideal for UAVs. They operate over the frequency range 4.5 to 18 GHz with output powers up to 140 W, and offer probably the highest power density on the market.

For high intelligence EW threat simulation - the PTCM Series

Ideal for radar and EW threat simulation, the PTCM Series TWT intelligent instrumentation amplifiers operate over a frequency range from DC to 40 GHz with a power output up to 50 kW. They are designed to deliver the highest field strengths in the test environment. User benefits include self-test, fault diagnosis, and modular plug and play replaceable printed circuit boards.

For radar top performance – G2 transponders

TMD will be showing a selection of radar transponders from G2 Engineering, its recently acquired specialist microwave company. Applications for G2 transponders and support equipment include UAVs, missiles, and manned aircraft.

TMD Sales Team at IDEF 2019

Stuart Love, Senior Sales Manager, UK and Europe – (Turkey Territory Manager)

Steve Humphries, Territory Manager Europe and Africa

TMD Technologies Limited – more than 20 years at the top of scientific and technical microwave and RF innovation

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 Technologies, LLC, USA

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 Department is engaged in the sales of the whole range of TMD's products, as well as new business development in the United States.

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