

PRESS INFORMATION

Preview for:
IDEX 2017
Abu Dhabi, UAE
19-23 February 2017

TMD exhibits for the first time at IDEX 2017 International Defence Exhibition and Conference – with new compact Ka band and solid state MPMs on Stand 06-A32

Exhibiting for the first time at IDEX, TMD Technologies Ltd (TMD), foremost West London based manufacturer in the microwave and RF field, will be showing a representative selection of its latest advanced products for air, land and sea defence applications.

At IDEX 2017 TMD will be showcasing its newest microwave power modules (MPMs): in particular the recently launched TWT based Ka band PTX8807 and solid state PTS6900.

IDEX - part of TMD's expansion strategy

Said Nigel Hann, TMD's Head of Sales: "Although we have attended IDEX several times as visitors, this is the first time we have actually exhibited. IDEX is one of the premier defence exhibitions covering the regions making up the Gulf Cooperation Council (GCC) political and economic union, and the decision to exhibit is all part of TMD's strategy to expand into this territory, where our Sales and Business Development Director, Jane McAlister, has many years valuable experience".

Commenting further, Jane McAlister said: "We have been analysing markets to align TMD's products and expertise with new customers. We see many opportunities for involvement within the GCC community with companies who are interested in expanding their indigenous capability, rather than outsourcing the complete solution".

TMD's new PTX8807 TWT based MPM - features easy system integration

The new PTX8807 is the first of TMD's new line of TWT based, Ka band compact MPMs. Operating over the technically challenging 30-40 GHz range with an output power of up to 200 W at 100% maximum duty cycle, the advanced PTX8807 offers simplified integration for high performance EW and radar systems.



TMD'S PTX8807 is the first in a new line of Ka band MPMs. Right – during final assembly.

It comprises a high power Ka band helix travelling wave tube (TWT) and switched mode power supply. This single 'drop-in' microwave amplifier unit obviates the need for high voltage connections and eliminates associated reliability problems and safety hazards. Also, using just one MPM instead of a separate TWT and power supply means spares logistics and maintenance procedures are simplified.

Because the PTX8807 can incorporate a variety of TWT models, customers can specify duty, frequency and peak power requirements. Factory-set optimised performance means that there is no need for user adjustments, and field replacement is made easier. The MPM is designed with high electrical efficiency with minimum cooling required, and will operate reliably over a wide temperature range. Furthermore, because the HV section is fully encapsulated, the PTX8807 operates reliably at high altitude and high humidity and is easily integrated into a variety of airborne platforms.

The PTX8807 also features remote operation and status monitoring.

... also showcased

TMD offers the benefits of both TWT based *and* solid state MPMs to its customers, and exhibited at IDEX 2017 will be the solid state PTS6900 and TWT based PTXM Series.

PTS6900 - advanced solid state technology

The company's latest solid state PTS6900 employs advanced GaN MMIC technology to provide high performance operation over the 2-6 GHz range, with 150 W output power and adjustable 55 dB gain. It is optimised for EW/ECM systems and has a very high predicated MTBF for an airborne uninhabited fighter environment.

PTXM Series - ideal for UAVs

Featuring low volume and low weight, the TWT based PTXM Series are ideal for UAVs. Operating over the 4.5 to 18 GHz range with output powers up to 140 W, these ultra-compact MPMs offer perhaps the highest power density on the market.

... and

In addition, TMD will be exhibiting its fast warm Ku band ring loop TWTs and rapidly developing range of instrumentation TWT and solid state amplifiers.

A strong TMD team at IDEX

On TMD's Stand at IDEX 2017 will be:

Jane McAlister, Sales and Business Development Director

Nigel Hann, Head of Sales

Dr David Cook, Product and Technology Development Manager, Equipment

TMD Technologies Limited – More than 20 years at the top!



TMD Technologies Ltd is one of the world's leading designers and manufacturers of specialised transmitters, amplifiers, microwave power modules (MPMs), high voltage power supplies and microwave tubes for radar, EW and communications applications. The multiple Queen's Award winning company 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 Ltd, set up in Baltimore, Maryland in 2013; its purpose being to provide excellent commercial and technical support to TMD's customers in the USA. The company is now well established, the product repair and service centre is up and running and its Sales and Marketing Department is engaged in new business development in the USA - for the whole range of TMD's products.

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