

In Focus

THE MAGAZINE FOR THE CUSTOMERS OF TMD

Enterprise and Expansion for TMD!



TMD has set up a completely new assembly area to progress a major production contract from the USA

Despite the gloomy economic climate, TMD is once again bucking the general trend.

The company's innovative approach to design engineering (which won us the Queen's Awards for Enterprise in 2004 and 2005), last year led to the winning of a \$15M production contract from the USA - the largest TMD has received so far.

The contract end user is the US DoD, and the product is a low noise power amplifier designed specifically by TMD's Chief Transmitter Engineer Derek Newton and team to meet a very challenging technical specification.

During the second half of last year a great deal of work was put in to set up a completely new area for the assembly, high voltage testing and environmental

stress screening (ESS) for the new contract. Said Geoff Schubert, Facilities Manager: "It was greatly satisfying to transform what had been an office into a vibrant new production facility, culminating in the installation of a very large (40,000 litre) liquid nitrogen tank to feed the stress chambers!"

Human Resources have also been very busy, and the workforce has now expanded from 150 to nearly 190 people, providing valuable local employment. "The hard work has paid off, and we are delighted with the talented and enthusiastic team we have assembled", said Joanna Hill, HR Manager.

The contract has been progressing excellently and the first unit was successfully completed this February. Commented Adeline Daly, Programme Manager: "We have achieved a lot over the last six months, but this is just the



beginning. We must now prove that we can deliver products to the very highest standards month by month - and, of course, we will".

IN THIS ISSUE

- Focus on MPMs
- EFA Contract
- TMD on Show

Focus on MPMs



TMD's PTX8000 MPMs offer many user benefits for applications ranging from high PRF, low noise pulsed radars (both ground based and airborne) to CW electronic counter measures (ECM) and SATCOM

An increasingly important part of TMD's product portfolio is the PTX8000 range of Microwave Power Modules (MPMs), developed in response to the growing needs of the marketplace.

The exciting PTX8000 range of MPMs features:

- Lightweight and compact design (ideal for airborne applications)
- High reliability
- High efficiency
- Fully integrated configuration for ease of connectivity
- Flexibility of operation

Models can be configured for CW or pulsed operation and the range covers S to Ka band.

We had an interesting order from EADS Astrium Ltd, based in Portsmouth, who were developing an airborne SAR

radar system for ground mapping. They were looking for a more reliable power source with lower noise properties to improve image quality. Discussions during a chance meeting at a radar conference with Richard Patrick, our Business Development Manager, soon convinced them that TMD had a viable solution. We supplied EADS with a PTX8202, which operates at 9.0 -10.7 GHz, 110 W CW and is optimised for low noise.

The flight trials of the SAR system were completed in January this year with excellent results, demonstrating good

reliability and significantly improved picture quality.

Reporting back to us, Martin Cohen of EADS Astrium said: "You will be pleased to know that so far your MPM has worked impeccably. Thank you, and well done TMD!"

Commented Stuart Love, Sales Executive TMD: "We are obviously very delighted with the success of our PTX8202 MPM, and look forward to a continuing relationship with EADS Astrium."



X band Quad Polar image of an area near Leeming Airfield in North Yorkshire - courtesy EADS Astrium UK (Portsmouth)

EW Power Supplies for Eurofighter Typhoon

TMD's Repair Department in the Spotlight!

Last year TMD's Repair Department pulled out all the stops to meet an urgent deadline for customer Selex - providing a batch of power supplies which included some new and some repair units.

' great confidence in TMD's ability '

Said Dr Elfed Roberts, Technical Supply Chain Manager, Selex: "Based on the excellent performance of TMD's Repair Manager Paul Mansell and his team, we have great confidence in TMD's ability to deliver quality and service".

A further production contract has now been received. Said TMD's Sales Director Graham Brown: "We are delighted to continue our involvement with Selex and the prestigious EFA programme".



A flight of EFAs (courtesy Selex)



Right: TMD's EFA repair team lead by Repair Manager Paul Mansell. Left to right Hock Hong, Paul Mansell, Win Inman, Bob Murrell and Peter Pop

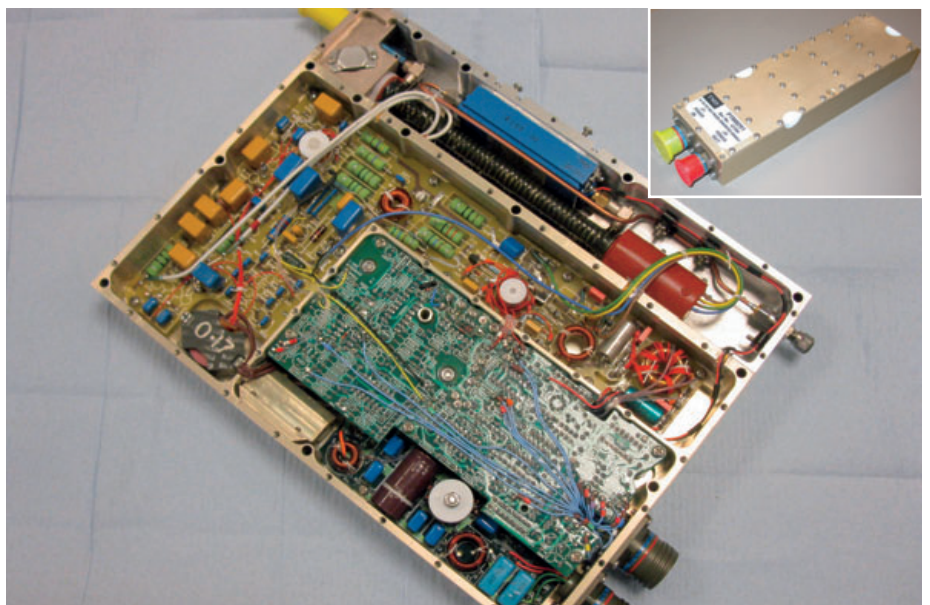
The New PTX8205 MPM - More Range, More Power

TMD is currently preparing to launch a new higher power MPM - the PTX8205.

This product has a wider range of operation from 4.5 -18.0 GHz at a mid-band output power of 140 W. As with other MPMs in the TMD range, pulsed or CW operation is available. Several design refinements have been made - for example, improvements to the connector positioning - which are now being applied to the rest of the range.

This new unit has been developed mainly for airborne EW applications, but it can be used equally well for radar or communications purposes with the appropriate adjustments.

The PTX8205 has generated considerable interest in the marketplace. A demonstration unit has been completed and TMD is expecting to secure a large order from a Middle East customer in the near future. We plan to formally launch the product at the MTT-S show in Boston, USA this June (see 'Forthcoming Events', on the back page).



The new PTX8205 MPM is attracting a great deal of interest in the marketplace (TWT shown in picture supplied by e2v). Inset: The PTM8291 power converter accessory unit

Accessories

TMD also provides low voltage power

converters, control boxes and EMI filters to assist customers with the integration of MPMs into their systems.

TMD on Show



Service with a smile. Guy Howard, TMD's Sales Manager, Instrumentation Microwave Amplifiers, with Publicity Manger Heather Skinner, assists a customer at EMCUK 2008. You can be assured of a warm welcome at all our forthcoming events! (See details opposite)

EMCUK October 2008

Once again TMD was at Newbury Racecourse for the highly successful EMCUK exhibition. Said Heather Skinner, Publicity Manager: "It is always a pleasure to attend this show because of the excellent trouble free organisation by Nutwood UK. Building on the success of the previous year we again shared a stand with our antenna partners Q-par Angus". Commented Guy Howard, TMD's Sales Manager, Instrumentation Microwave Amplifiers: "Several substantial HiRF programmes using TMD amplifiers and Q-par Angus antennas are in the final planning stages, and the show was an ideal forum for discussions with all the relevant parties".

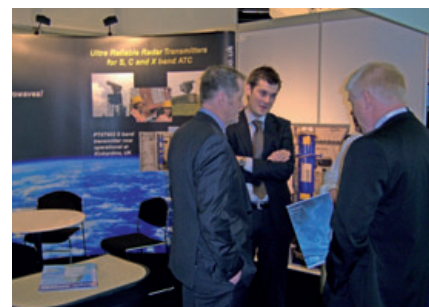
AOC Symposium & Convention October 2008

Said Paul Davies, Sales and Marketing Executive for TMD: "In Reno, Nevada we had many useful discussions with members of the EW community - particularly regarding TMD's Microwave Power

Modules (MPMs), which are ideal for airborne EW applications (see centre pages of this issue). We are looking forward to seeing everyone again, in Washington this year, to discuss the latest developments".

IET High Power RF Technologies Conference February 2009

Organised by the IET High Power RF Faraday Partnership and supported by the UK MoD, this event was the first unclassified HPRF technical conference in the UK, encompassing all frequencies from VHF through microwave and millimetre wave to terahertz frequencies. Conference sponsor TMD presented two papers, from Graham Phillips, Technical Manager, and Richard Patrick, Business Development Manager. Said Howard Smith, Engineering Director, who was Chair for the Components and Subsystems Session: "As always, it's great to be closely involved with the IET High Power RF Faraday Partnership and this stimulating conference more than lived up to our expectations".



Assistant Sales Director Nigel Hann and Sales Executive Stuart Love discussing TMD's transmitters at ATC Global 2009

ATC Global March 2009

In our second year at ATC Global, at the RAI in Amsterdam, TMD were now 'old hands' and able to gain even greater benefit from the show. We had a larger stand and a bigger presence and, as before, intrigued visitors with our 'life-size pop-up' of the PTX7602 S band transmitter for Air Traffic Control. This transmitter (see issues 25 and 26 of *In Focus*) has now been operating successfully in the field since autumn last year. Said Stuart Love, Sales Executive: "ATC Global is the perfect forum to promote the PTX7602, and our better stand position was a great help; more orders have been received and more are in the pipeline".

Forthcoming Events

We look forward to seeing you this year at:

IEEE MTT-S

Boston, USA
7-12 June 2009
Stand 2714

EMCUK 2009

Newbury Racecourse
13-14 October 2009
Stand 15

AOC Symposium & Convention

Washington DC, USA
18-21 October 2009
Stand 225

TMD

TMD Technologies Limited

Swallowfield Way, Hayes, Middlesex UB3 1DQ UK
Telephone: 020 8573 5555 or
44 (0)20 8573 5555 (international)
Fax: 020 8569 1839
Web: www.tmd.co.uk

Customer Care
wecare@tmd.co.uk

TMD ... the power in microwaves!

