

# Army Guide monthly



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## Defence Industry

### High Data Rate Modems, Messaging Applications, and Modules



AT Communication International is pleased to announce a new line of high data rate modems and software applications and to complement the line of HF, VHF, and UHF radio systems, AT Communication International is significantly improving our ability to serve the rapid mobilization requirements for military/security, first responders, naval and government organizations.

These high performance modems provide enhanced data rates and a secure gateway between tactical radios as well as email messaging. Enabling efficient and simple to use messaging, users can rapidly deploy radio networks for data messaging; even when voice communication is not possible.

The new line of modems include automatic link establishment (ALE) providing immediate linking to other radios and networks with no operator intervention, as well as optional 2nd and 3rd generation ALE controllers for faster, even greater levels of interoperability. Weight, size, and desired connectivity for missions and budget are addressed at every level.

In addition, AT Communications International provides bundled modems with email, evaluation kits, modules and servers for other equipment manufacturers (OEMs).

Email and messaging is critical to today's government, naval and military operations. AT Comms provides reliable and robust email and messaging applications to suit every mission.

For more information, please visit our page:  
<http://at-communication.com/en/hf-vhf-modems/>

## Exhibitions

### Renault Trucks Defense To Exhibit At The SOFINS Show

The SOFINS show is to be held at camp de Souge on 14-16 April 2015. On this occasion, RENAULT TRUCKS Defense is to exhibit a range of Special Forces vehicles on its stand.

SOFINS (Special Operations Forces Innovation Network Seminary) provides a forum for discussions between the key players of French and foreign special forces and the Defense industry in seeking innovative

solutions. During this event, products and vehicles are to be shown in an exhibition area and during dynamic demonstrations in test areas. Workshops bringing together SMEs, laboratories and Research & Development sections of armed forces will provide an understanding of operational requirements and allow the immediate launching of R&D cooperative programs.



RENAULT TRUCKS Defense will exhibit 5 vehicles on its outside stand:

- SHERPA Light Scout (RTD), an armored reconnaissance 4x4 vehicle
- SHERPA FS (RTD), a 10.4-ton, open-top hull, 4x4 adaptation, intended for Special Forces
- SHERPA APC (RTD), an assault-ladder vehicle version accommodating 10 kitted out operators
- VLRA 2 Commando (ACMAT), a 12-ton, engagement-proven, open-top hull, 4x4 vehicle carrying 2+6 kitted out men
- ALTV FS (ACMAT), a 3.5-ton, open-top hull, 4x4 vehicle, carrying 3 kitted out men

The SHERPA Light Scout is to perform dynamic demonstrations in specifically laid out 4x4 areas.

This show provides RENAULT TRUCKS Defense with the opportunity to exhibit and demonstrate its know-how in off-road vehicles and its experience in the Special Forces field.



## Training And Simulators

### Rheinmetall successfully passes acceptance tests for Leopard 2 simulators for the Indonesian Army



Within 15 months after contract award Rheinmetall has produced state-of-the-art driving simulator and gunnery simulator systems for training Indonesian Leopard 2 personnel. The order is worth several million euros.

The Leopard Gunnery Skills Trainer (LGST) and Driver Training Simulator (DTS) are specifically designed for training Leopard 2A4 tank crews, and will primarily be used for sharpening the gunnery and combat skills of commanders, gunners and drivers.

Rheinmetall's ultramodern TacSi technology features prominently in these simulators. Furthermore, as a leading supplier of defence technology systems, the Group is able to draw on its unsurpassed knowledge of the Leopard 2 and longstanding competence in the field of simulation, now coupled with the advantages offered by serious gaming technologies. As a result, Rheinmetall simulation products combine the virtues of the game engine in regard to visualization with the high-quality training outcomes its simulators assure.

During March 2015 a delegation of Indonesia conducted the factory acceptance test (FAT) at Rheinmetall and both simulators passed them successfully. The delivery and installation of simulators will begin soon to complete the project in time.

This contract and its rapid progress explain once again the global trust placed in Rheinmetall's simulation technology and main battle tank expertise.

engineers at BAE Systems have cleverly adapted it to use on heavy tracked vehicles, some weighing as much as 35 tonnes. In recent trials a CV90 fitted with active damping set a new speed record on a rough terrain course, beating the Main Battle Tanks (MBTs).

Dan Lindell, CV90 Platform Manager at BAE Systems, said: "Adapting the Active Damping system for the first time from a light weight car to a heavy tracked vehicle such as CV90 was a unique challenge for us, but this advanced technology will deliver results to our customers in terms of vehicle performance and savings on the through life costs, as well as providing real benefits to the front line soldier"

The CV90 is designed and built by BAE Systems in Sweden and is one of the largest families of armoured combat vehicles. CV90 is currently used in countries such as Norway, Finland and Denmark and has successfully performed in global operations including UN and NATO collaborations.

## Defence Industry

### F1 Technology Adapted to Armoured Combat Vehicles by BAE



In a world first, tracked military vehicles are being upgraded with technology adapted from Formula One to improve handling and speed across the battlefield.

Engineers at BAE Systems have applied the new upgrade 'Active Damping' system to current variants of the CV90 combat vehicle family; breaking speed records in rough terrain and increasing the CV90's agility by reducing the vehicle's pitch acceleration by approximately 40 per cent – taking a world class system to the next level, and leaving competitors behind.

First introduced into Formula One in the 1990s, the 'Active Damping' system works by sensing the speed of the vehicle and lay-out of the terrain ahead and responding by pressurising the suspension to keep the vehicle on a level plane at all times.

This increased stability across all terrain is helping to reduce the wear and tear on the armoured vehicles and subsequently reduce through-life repair costs for each vehicle, despite seeing each able to travel 30 – 40 per cent faster on rough terrain.

For the crew of a CV90, the technology means a smoother ride and a reduction in fatigue; an important factor on the battlefield. The reduced vertical motion also increases the gunner's probability of finding and hitting targets.

The suspension system usually operates on carbon fibre racing cars weighing no more than 700kg, but