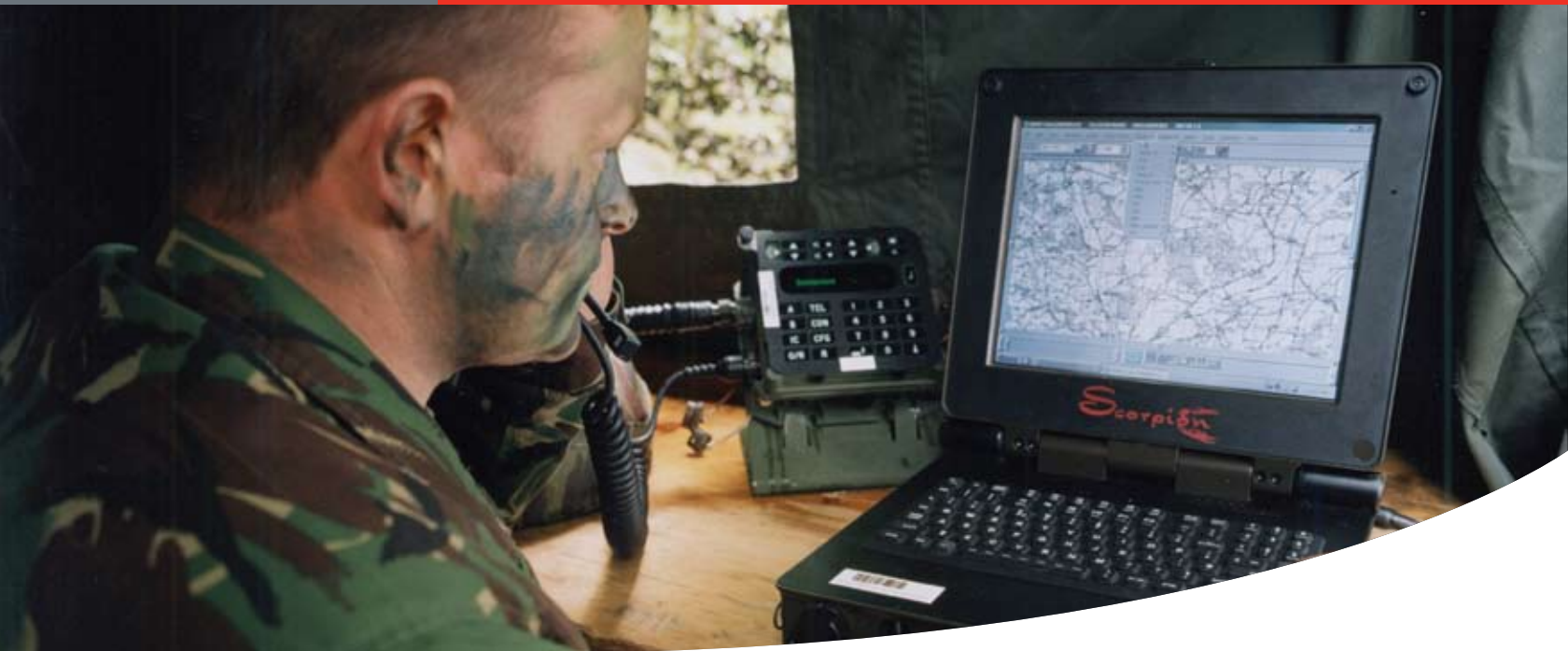


**Rugged Where You Need It, When You Need It.**



## **SCORPION™ RBM**

### **In Production For U.K. BOWMAN Program**

The Scorpion™ Rugged Battle Management (RBM) notebook computer is designed and manufactured to survive the most rugged conditions worldwide, making it ready and able to perform during the most demanding operational challenge. The Scorpion™ RBM is the right choice for military operations in any hostile environment due to a wider operational temperature range, a fully sealed stronger construction and proven military heritage wherever it is needed – on the digital battlefield or the flightline.

The Scorpion™ RBM houses an entirely commercial-off-the-shelf (COTS) internal architecture and features long-life rechargeable Lithium Ion batteries that are hot-swappable, a truly exceptional thin film transistor (TFT) daylight readable display and a removable hard-drive.

The Scorpion™ RBM from DRS Tactical Systems has been specifically designed for extremely harsh environments

and meets critical EMI and MIL-STD-810 environmental requirements. This proven and reliable computing system brings exceptional rugged computing performance and flexibility to the field at an affordable price and low life-cycle cost.

### **FEATURES**

- Rugged lightweight design
- 1.4 GHz Intel Pentium® M processor
- Windows 98, 2000, NT, XP, Solaris
- Internal PCMCIA
- Hot-swappable batteries
- Integrated power management
- High-resolution sunlight readable TFT display
- Full QWERTY Elastomer keyboard
- Configurable I/O options
- Convenient carrying strap
- Expansion bay
- User removable hard drive

## COMPUTER

Processor	Intel Pentium® M 1.4 GHz, 1 MB L2 cache
Memory	128 MB DDR, expandable to 2 GB
Mass storage	removable internal 40 GB hard drive (expandable, consult factory)
Display	SVGA 12.1-inch transreflective daylight viewable XGA 13.3-inch transmissive touch screen*
Resolution	SVGA 800 x 600 pixels, XGA 1024 x 768 pixels
Keyboard	sealed, elastomer 88 QWERTY configured
Pointing device	fully sealed pointing device with right and left pick buttons
Operating system	compliant with MS-DOS; Windows 95, 98, 2000, XP; Microsoft NT v 4.0, Solaris
Expansion	two (2) type I/II or one (1) type III PCMCIA ports, additional battery, DVD/CD-ROM drive, custom USB interface device
External ports	parallel port, 2 USB ports (1.1 or 2.0), 10/100 ethernet port, external VGA supports up to 1280 x 1024
Communication ports	port 1: RS-232, port 2: RS-422 or RS-423, port 3: RS-422 or RS-423, port 3: isolated RS-422*
Power	28 VDC vehicle power per MIL-STD-1275A, AC converter 90-264 VAC, 47-440 Hz
Battery	Lithium Ion hot-swappable
Weight	15 lbs.
Dimensions	13 x 12 x 2.5 inches

## ENVIRONMENTAL

Temperature, operating	-20°C to 60°C
Temperature, non-operating	-40°C to 71°C
Temperature (with heaters)	-32°C to 60°C*
Temperature (shock)	-35°C to 21°C and 21°C to 52°C each within 10 minute intervals
Salt fog	48-hour exposure per MIL-STD-810E, Method 509.3, Proc. I
Solar radiation	exposure per MIL-STD-810E, Method 505.3, Proc. I, hot-dry
Shock (road)	operates during three half-sine shock impulses in each direction of each orthogonal axis (total of 18 shocks) at a peak amplitude of 30 g (-0%, 20%) and duration of 11 ms (-0%, +50%), on isolation mounts
Shock (functional)	operates during three half-sine shock impulses in each direction of each orthogonal axis (total of 18 shock) at a peak amplitude of 40 g (-0%, 20%) and a duration of 6 ms (-0%, +50%), hard mounted
Altitude	10,000 feet operating (tested to 15,000 feet) per MIL-STD-810E, Method 500.3, Proc. II
Humidity	relative humidity operating per MIL-STD-810E, Method 507.3, Proc. II
Sand and dust	exposure to wind blown sand and dust particles at a rate of 20±3 miles per hour for 30 minutes per MIL-STD-810E, Method 510.E, Proc. I
Water tightness	no water penetration, 50 psig, 40 minutes, 3 feet spray per MIL-STD-810E, Method 506.3, Proc. III
Climate	fungus resistant
Explosive atmosphere	non-explosive when tested per MIL-STD-810E, Method 511.3, Proc. I
Vibration	operates on the move without degraded performance when mounted on shock isolation fixtures for tracked and wheeled vehicles per MIL-STD-810E, Method 514.4, Proc. I, Category 8
EMI	MIL-STD-461E, CE-102, CS-101, CS-114, RE-102 and RS-103
ESD (operating)	15,000 V to controls/surfaces
ESD (non-operating)	2000 V to I/O pins

\* Denotes optional item

