

# DRS's MILITARY RUGGED TABLET (MRT) WITH INTEL CORE 2 DUO CORE



## Mission Critical Rugged Computing

DRS's Dual Core Military Rugged Tablet (MRT) establishes new standards in features and performance for highly rugged military computers. The MRT meets MIL-STD-810F, MIL-STD-461E and features embedded MIL-STD-1275 power conditioning. In addition to a Type III PCMCIA slot, this ultra-rugged tablet offers a flexible connector panel, which allows each unit to be customized with a variety of standard communication devices, such as TacLink and PCIDM modems. All MRT's have internal "flex" space that can accommodate a Garmin Global Positioning System (GPS) or an additional radio. A Selective Availability Anti-Spoofing Module (SAASM) option is also available.

The MRT features a military-grade aluminum case with Intel's 1.2 GHz Dual Core Processor and a 10-inch XGA or SVGA display with dependable 5-wire touch screen and NVIS capable display. The MRT can be hard-mounted directly into a vehicle platform without the added costs of an additional vibration isolation kit.

DRS's MRT is already the rugged computing tablet of choice for:

- **U.S. Army** - Mortars Fire Control Station and Intelligent Munitions Systems Control Station
- **U.S. Marine Corps** - Target Location Designation Hand-Off System (TLDHS / Strikelink) Program
- **U.S. Air Force** - Tactical Air Control Party Modernization Program

DRS's MRT provides rugged and reliable computing to the Warfighter for use in any mission critical application. Soldiers depend on DRS computer systems that go wherever the mission is. **You can count on DRS.**

DRS TACTICAL SYSTEMS



# DRS's MILITARY RUGGED TABLET (MRT) WITH INTEL® DUAL CORE

## Technical Specifications

### Features

- Designed to MIL-STD-461F
- Passive thermal management eliminates switches and fans
- Embedded MIL-STD-1275 power
- NVG compatible display

### General

Weight . . . . . under 8.5 lbs.  
Dimensions . . . . . 12 1/4 L x 8 1/4 H x 2 D inches  
Power management . . . . . MS, APM and ACPI  
Power . . . . . 15-33 VDC vehicle power per MIL-STD-1275  
Power, optional . . . . . AC converter 85-264 VAC, 47-63 Hz

### Technical Features

Processor . . . . . Intel® Dual Core  
Memory . . . . . 2 GB, expandable  
Storage . . . . . 40 - 160 GB HDD or 8 - 128 GB SSHD  
Audio . . . . . 2 integrated speakers, AC '97 standard, MPEG playback  
USB capability . . . . . 2 USB 2.0 ports, commercial  
Ethernet capability . . . . . 10/100 ethernet port, commercial

### Hardware/Software Features

Expansion and integration . . . . . embedded PCMCIA Type III or 2 Type II PCMCIA  
Door construction . . . . . rugged aluminum or heavy duty polycarbonate  
Wireless, optional . . . . . Bluetooth  
Display . . . . . 10.4-inch XGA 1024 x 768 pixel resolution active matrix color  
Touch screen . . . . . 5-wire resistive touch screen input withstands 35 million activations in a single area vs. typical 1 million  
Serial ports . . . . . combinations of RS-232 and RS-422  
Communication, optional . . . . . TaLink 3000e, PCIDM card  
Global Positioning System (GPS), optional . . . . . SAASM or commercial  
Antenna, optional . . . . . integrated GPS  
Night vision . . . . . NVG/NVIS adjustable brightness (down to 0.05 nits)

### Environmental

Temperature, operating . . . . . -30° to +60°C  
Temperature, storage . . . . . -54° to +70°C  
Temperature, shock . . . . . -35°C to 21°C and 21°C to 52°C each within 10-minute intervals  
Shock . . . . . MIL-STD-810F, Method 516.5, Proc. I\*  
Altitude . . . . . 10,000 feet operating (tested to 15,000 feet) per MIL-STD-810F, Method 500.3, Proc II  
Humidity . . . . . relative humidity operating per MIL-STD-810F, 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 510.3, Proc I  
Water tightness . . . . . no water penetration, 50 psig, 40 minutes, 3-foot spray per MIL-STD-810F, Method 506.3, Proc III  
Climate . . . . . fungus resistant  
Explosive atmosphere . . . . . non-explosive when tested per MIL-STD-810F, Method 511.3, Proc I  
Salt and fog . . . . . 48-hour exposure per MIL-STD-810F, Method 509.3, Proc I  
Solar radiation . . . . . exposure per MIL-STD-810F, Method 505.3, Proc I, hot-dry  
Vibration . . . . . operates on the move without degraded performance when hard mounted for wheeled vehicles per MIL-STD-810F, Method 514.4, Proc I, category 8  
Road shock . . . . . operates during 3 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%)  
Functional shock . . . . . operates during 3 half-sine shock impulses in each direction of each orthogonal axis (total of 18 shocks) at a peak amplitude of 40 g (-0%, +20%) and a duration of 6 ms (-0%, +50%)  
Ballistic shock . . . . . operates during 3 half-sine shock impulses in each direction of each orthogonal axis (total of 18 shocks) at a peak amplitude of 50 g (-0%, +20%) and duration of 10 ms (-0%, +50%)  
Transit drop . . . . . MIL-STD-810F, Method 516.5, Proc. IV  
EMI . . . . . MIL-STD-461E, CE102, CS101, CS114, CS115, CS116, RE102 and RS103  
ESD . . . . . 2,000 V to I/O pins, non-operating, 25,000 V to surfaces, operating, per MIL-STD-464  
HEMP . . . . . MIL-STD-461E, RS105, CS116

\*Requires Isolation Kit for Rotating Hard Disk Drive

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