

Rugged Where You Need It, When You Need It.



MILITARY RUGGED TABLET (MRT) WITH INTEL CORE 2 DUO

Mission Critical Rugged Computing

DRS 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 PCMCIA slot(s), 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 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 1.66 GHz Dual Core Processor and a 10.4-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 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 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.

FEATURES

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



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	12 V - 33 V, Per Mil-Std 1275
Power	AC/DC power supply 110/240 VAC 50-60 Hz

TECHNICAL FEATURES

Processor	1.66 GHz Intel Dual Core
Memory	2 GB, expandable to 4 GB
Storage	160 GB rotating or 32 - 128 solid state removable hard drive
Audio	Audio In and Out / 2 integrated speakers, AC '97 standard, MPEG playback
USB capability	4 USB on Mil-Connectors, 2 USB commercial (behind sealed door)
Ethernet capability	1 10/1000, 1- 10/100/1000 Gig-E
Video	VGA, DB-15

HARDWARE/SOFTWARE FEATURES

Expansion and integration	embedded PCMCIA Type III or 2 Type II PCMCIA
Door construction	rugged aluminum or heavy duty polycarbonate
Wireless	Bluetooth, 802.11*
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	1-RS-232, 4-RS-422
Communication	TacLink, PCIDM card*
Global Positioning System (GPS)	SAASM or commercial*
Antenna	integrated GPS*
Night vision	NVG/NVIS adjustable brightness (down to 0.5 nits)

ENVIRONMENTAL

Temperature, operating	-35° to +60°C
Temperature, storage	-45° to +70°C
Temperature, shock	+20° C to -35° C within 10 minutes and from +20° C to +60° C within 10 minutes
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-feet 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	VibrationRoad 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%)
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

*Denotes optional item

