



FULLY RUGGED LAPTOP 13.3-inch Display

AMREL's ROCKY RT9 Laptop is a popular choice for unmanned systems and many other demanding mission-critical applications. For over 20 years, warfighters have known that they can rely on ROCKY laptops to successfully perform even in harsh environments.

Meets strictest ruggedness standards. Independently certified for MIL-STD 810, IP-55, and MIL-STD 461(EMI/EMC).

Flexpedient® capable. AMREL's proprietary technology enables you to run multiple applications on one computer. Demonstrated in theater on control systems of deployed unmanned systems.

Mature technology. Successful use in global battlefields has earned it a TRL 9.

Extended end of life. The ROCKY RT9 Laptop is designed for easy upgrades and configuration stability.

Built for customization. Modular, open platform design and a remarkably large number of configurable I/O ports ensure flexible connectivity and easy customization. AMREL extends the manufacturer warranty to all modifications it performs. Currently deployed customizations include:

- **Unmanned Systems Operator Control Units**
- **Avionic multiple application-based testing platform**
- **Many other applications**

RT9-M Technical Specifications

Item	Standard	Upgrades
Operating System	Genuine Microsoft Windows 7 Professional 32-bit	Windows 7 Professional 64-bit, Ultimate 32/64-bit, Linux Compatible*
CPU	Intel® Core 2 Duo P8400 2.26 GHz Processor 1066MHz FSB, 3MB L2 Cache	
Memory	2GB Standard DDR3 1066 MHz	Up to 8GB DDR3 1066MHz (supports 64-bit)
Graphic Controller	<ul style="list-style-type: none"> Intel GMA 4500 MHD Max 1695 MB Shared System Memory (64-bit) Max 1024 MB Shared System Memory (32-bit) 	nVIDIA Geforce 9300 512MB DDR2
Display	<ul style="list-style-type: none"> 13.3" XGA (1024 x 768) TFT LCD Sunlight readable, anti-reflective treatment 	
Storage	<ul style="list-style-type: none"> 320GB (5400 RPM) Removable HDD with heater 2.5" high shock-resistant SATA HDD Max. 9.5 mm height 	<ul style="list-style-type: none"> Any 2.5" SATA HDD, Max. 9.5 mm height* SSHD also available*
Audio	<ul style="list-style-type: none"> Integrated speakers Intel HD audio 	
Keyboard & Touchpad	<ul style="list-style-type: none"> Water-resistant standard 87-key, non-backlit Touchpad 	Water-resistant 89-key backlit keyboard
Flexible Media Bay	Removable SATA Optical drive: DVD-ROM	Swappable 2nd battery, or 2nd HDD/SSHD, or DVD+/-RW, Flexpendient® module
I/O Interface	LEFT: Gigabit LAN x 1, PS/2 x 1 (KB+mouse), IEEE 1394 (Fire wire) x 1, USB 2.0 x 3, PCMCIA II x 1 and PCI express x 1, Mic/line-in/headphone REAR: DC Power Jack x 1, VGA x 1, Docking port x 1, Printer port x 1, Serial port x 2 (COM 1/2) RS-232/422/485	Modem x 1, Serial port x 2 (COM 3/4) RS-232/422/485, PCMCIA Type II x 2 (no express card) DC Power Jack x 1 (Military type), Military Connector x 2 (customizable) Direct DC 12~32V input to system (MIL-1275 option) Optional MIL-1275 DC Vehicle adapter*, Low EMI BVA for Ground Army solution
Power	Main Battery: 11.1V, 7800mAh Lithium-Ion AC Adapter: <ul style="list-style-type: none"> AC Input: 100V~240V/50-60Hz DC Input: 90W max Complies with military power source AC 115V, 400Hz input 	
Dimensions	12.28 in x 9.69 in x 2.63 in (312 mm x 246 mm x 66.7 mm)	
Weight	9.48 lbs (4.3 kg)	

Integrated Options	Description
Giga LAN	10/100/1000 Mb
Wireless LAN	Intel WiFi Link 5100 a/b/g/n
Wireless WAN	Cinterion HC25, HSDPA/UMTS 3.5G
Wireless PAN	Short-range 2.4GHz BT
GPS	Ublox LEA-5H
Modem	Azalia 56kbps V.92 modem

Accessories	Description
2 nd Battery	11.1V, 7800mAh Lithium-Ion, swappable with Optical drive
2 nd SATA HDD	Any 2.5" SATA HDD, max 12.7 mm height*
2 nd SSHD	Available*
Dual battery charger	Available
Docking Station	Serial port x 2, USB 2.0 x 2, DVI x 1, PS/2 x 1 (KB+mouse), VGA x 1, LAN x 1, Antenna hole, PCI Slot x 1, PCI Express x 1, Fan (optional)

Environmental Ratings	
MIL-STD 810G Certified	
Shock	516.6, Procedure I
Vibration	A. 514.6, Procedure I, Category 20 B. 514.6, Procedure I, Category 14 C. 514.6, Procedure I, Category 1
Rain	506.5, Procedure II
Humidity	507.5 (aggravated)
Salt Fog	509.5
Altitude	Method 500.5, Procedure I Operating: 15,000 ft (4,572m) Storage: 40,000 ft (12,192m)
High/Low Temperature	Method 501.5, Procedure I and II Method 502.5, Procedure I and II Operating: -4°F to 122°F / -20°C to 50°C Storage: -40°F to 158°F / -40°C to 70°C
Temperature Shock	Method 503.5, Procedure I-A Operating: -4°F to 140°F / -20°C to 60°C
Explosive Atmosphere	Method 511.5, Procedure I
Solar Radiation	Method 505.5, Procedure I-A1
MIL-STD 461F Certified	
EMI/EMC (RT9-M only), Ground Army available	
IEC IP-55	
Dust-protected; water jets	

* Contact AMREL for more information
 ** Specifications subject to change without notice