



## FULLY RUGGED LAPTOP

### 13.3-inch Display

**AMREL's ROCKY RT9 Laptop is a popular choice for many demanding applications. For over 20 years, warfighters and First Responders have counted on ROCKY laptops to successfully perform even in harsh environments.**

**Meets strictest ruggedness standards.** Independently certified for MIL-STD 810, IP-65, and MIL-STD 461 (EMI/ EMC).

**Space-saving solutions.** AMREL's unsurpassed skill in integration gives you the most options in space-saving solutions for the crowded compartments of fire engines, police cruisers, and tactical vehicles.

**Two computers in one.** The ROCKY RT9 can serve as a dual-use platform — as an independent laptop and as a component in an In-Vehicle solution.

**One computer does the job of many.** AMREL's proprietary Flexpedient® module lets you combine numerous single-purpose devices into one multi-functional computing solution. *Learn how by watching the video on [www.flexpedient.com/](http://www.flexpedient.com/)*

**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's warranty to all modifications it performs.

Currently deployed customizations include:

- ☑ *Unmanned Systems Operator Control Units*
- ☑ *Concrete Screed*
- ☑ *Public Safety In-Vehicle Computer*
- ☑ *Avionic multiple application-based testing platform*
- ☑ *Many other applications*

# RT9 Technical Specifications

Item	Standard	Upgrades
Environmental Rating	MIL-STD 810G, IP-65	
Military Package (Option)	MIL-STD 461F, Metal TwistLock Amphenol (621N Series) power connector <i>(Individual features can be ordered separately)</i>	Ground Army available (EMI)
Operating System <sup>1</sup>	Genuine Microsoft Windows® 7 Professional 32-bit	Genuine Microsoft Windows® 7 Professional 64-bit Genuine Microsoft Windows® 7 Ultimate 32/64-bit
CPU	Intel® Core 2 Duo P8400 2.26 GHz Processor 1066MHz FSB, 3MB L2 Cache	
Memory	2GB DDR3 1066 MHz	Up to 8GB DDR3 1066MHz (supports 64-bit)
Graphics	<ul style="list-style-type: none"> <li>Intel GMA 4500 MHD</li> <li>Max 1695 MB Shared System Memory (64-bit)</li> <li>Max 1024 MB Shared System Memory (32-bit)</li> </ul>	
Display	<ul style="list-style-type: none"> <li>13.3" XGA (1024 x 768) TFT LCD</li> <li>Sunlight readable, anti-reflective treatment</li> </ul>	<ul style="list-style-type: none"> <li>Resistive touch screen</li> </ul>
Storage	<ul style="list-style-type: none"> <li>500GB (5400 RPM) Removable HDD with heater</li> <li>2.5" high shock-resistant SATA HDD</li> </ul>	<ul style="list-style-type: none"> <li>Any 2.5" SATA HDD, Max. 9.5 mm height*</li> <li>Solid State Hard Drive (SSHD)*</li> </ul>
Audio	<ul style="list-style-type: none"> <li>Max. 9.5 mm height</li> <li>Integrated speakers</li> <li>Intel HD audio</li> </ul>	
Keyboard & Touchpad	<ul style="list-style-type: none"> <li>Standard 87-key keyboard</li> <li>Touchpad</li> </ul>	89-key backlit keyboard
Flexible Expansion Bay	Removable SATA DVD+/-RW with Nero	Swappable 2nd battery, or 2nd HDD/SSHD, or Flexpedient® module
I/O Interface	<b>LEFT:</b> Gigabit LAN x 1, PS/2 x 1 (KB+mouse), USB 2.0 x 3, IEEE 1394 (Fire wire) x 1, Express Card x 1, Mic/line-in/headphone <b>REAR:</b> 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, PC Card Type I/II x 2 (no express card) PC Card Type II x 1 & Express card x 1 Military Connector x 2 (customizable)
Power	<b>Main Battery:</b> 11.1V, 8700mAh Lithium-Ion <b>AC Adapter:</b> <ul style="list-style-type: none"> <li>AC Input: 100V~240V/50-60Hz</li> <li>DC Output: 90W max</li> <li>Complies with military power source</li> </ul> AC Input: 115V/400Hz	Direct DC 12~32V input to system (MIL-1275 option) Optional MIL-1275 DC Vehicle adapter* Low EMI BVA for Ground Army solution
Color	Black or NATO Green	
Overall Dimensions	12.75 in x 10.88 in x 3.14 in 324 mm x 276.3 mm x 79.9 mm	
Weight	9.48 lbs (4.3 kg)	

Integrated Options	Optional
Wireless LAN	Intel WiFi Link 6205 a/g/n
Wireless WAN	Cinterion HC25, HSDPA/UMTS 3.5G
Wireless PAN	Bluetooth® v2.1+EDR
GPS	Ublox LEA-6H
Modem	Azalia 56kbps V.92 modem
Security	TPM v1.2 module

Accessories	Optional
2 <sup>nd</sup> Battery	11.1V, 7800mAh Li-Ion, swappable with DVD+/-RW drive
2 <sup>nd</sup> SATA HDD	Any 2.5" SATA HDD, max 12.7 mm height*
2 <sup>nd</sup> SATA 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	
<b>MIL-STD 810G Certified</b>	
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 <sup>3</sup>	Method 511.5, Procedure I
Solar Radiation <sup>4</sup>	Method 505.5, Procedure I-A1
<b>MIL-STD 461F Certified</b>	EMI/EMC (Military Package only)
<b>IEC IP-65</b>	Dust-tight; water jets

<sup>1</sup> Computer is Linux compatible; WinXP downgrade available  
<sup>2</sup> Watch the video on [www.flexpedient.com](http://www.flexpedient.com) for more information  
<sup>3,4</sup> Compliant to MIL-STD 810G  
 \* Contact us for more information  
 \*\* Specifications subject to change without notice

