



## FULLY RUGGED LAPTOP

### 17.1-inch Display

**The only rugged laptop with a 17.1" display on the market.** Even with its big screen, AMREL's ROCKY RF9 Laptop still meets the strictest standards for ruggedness.

**Toughness you can trust.** Independently certified for MIL-STD 810, IP-65, and MIL-STD 461 (EMI/EMC).

**Experience you can rely on.** Used in the harshest field conditions for over 20 years, AMREL's computing platforms are built with decades of expertise.

**Long End of Life.** Designed for easy upgrades and configuration stability.

**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/)*

**Easily customizable & very configurable.** 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.

The ROCKY RF9 Laptop is perfect for applications that require large data displays, such as:

- ☑ Mapping
- ☑ GIS
- ☑ Situational Awareness
- ☑ Public Safety
- ☑ Oil & Gas
- ☑ Construction
- ☑ Field work
- ☑ Many other applications



# RF9 Technical Specifications

| Item                                | Standard  | Upgrades  |
|-------------------------------------|---|---|
| <b>Environmental Rating</b>         | MIL-STD 810G, IP-65   |   |
| <b>Military Package (Option)</b>    | MIL-STD 461F, Metal TwistLock Amphenol (621N Series) power connector<br><i>(Individual features can be ordered separately)</i>  | Ground Army available (EMI)   |
| <b>Operating System<sup>1</sup></b> | Genuine Microsoft Windows® 7 Professional 32-bit  | Genuine Microsoft Windows® 7 Professional 64-bit<br>Genuine Microsoft Windows® 7 Ultimate 32/64-bit   |
| <b>CPU</b>                          | Intel® Core 2 Duo™ T8400 2.26 GHz Processor<br>1066MHz FSB, 3MB L2 Cache  | Intel® Core 2 Duo™ T9400 2.53 GHz Processor<br>1066MHz FSB, 6MB L2 Cache  |
| <b>Memory</b>                       | 2GB DDR3 1066 MHz   | Up to 8GB DDR3 1066MHz (supports 64-bit)  |
| <b>Graphics</b>                     | <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>   | nVIDIA Geforce 9300 512MB DDR2  |
| <b>Display</b>                      | <ul style="list-style-type: none"> <li>17.1" WXGA+ (1440 x 900) High-bright LED Backlit</li> <li>Sunlight readable, anti-reflective treatment</li> </ul>  | <ul style="list-style-type: none"> <li>17.1" WSXGA+ (1680 x 1050) TFT LCD</li> <li>17.1" WUXGA+ (1920 x 1200) TFT LCD</li> </ul>  |
| <b>Storage</b>                      | <ul style="list-style-type: none"> <li>500GB (5400 RPM) Removable HDD with heater</li> <li>2.5" high shock-resistant SATA HDD</li> <li>Max. 9.5 mm height</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>  |
| <b>Audio</b>                        | <ul style="list-style-type: none"> <li>Integrated speakers</li> <li>Intel HD audio</li> </ul>   |   |
| <b>Keyboard &amp; Touchpad</b>      | <ul style="list-style-type: none"> <li>Standard 87-key keyboard</li> <li>Touchpad</li> </ul>  | 89-key backlit keyboard   |
| <b>Flexible Expansion Bay</b>       | Removable SATA DVD+/-RW with Nero   | Swappable 2nd battery, or 2nd HDD/SSHD, Flexpedient® module <sup>2</sup>  |
| <b>I/O Interface</b>                | <b>LEFT:</b><br>Gigabit LAN x 1, PS/2 x 1 (KB+mouse), USB 2.0 x 3, IEEE 1394 (Fire wire) x1, Express Card x1, Mic/line-in/headphone<br><b>REAR:</b><br>DC Power Jack x 1, DVI port x 1, VGA 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)<br>PC Card Type II x 1 & Express card x 1  |
| <b>Power</b>                        | <b>Main Battery:</b><br>11.1V, 8700mAh Lithium-Ion<br><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> <li>AC Input: 115V/400Hz</li> </ul> | DP DVI output x 1, Military Connector x 2 (customizable)<br><br>Direct DC 12~32V input to system (MIL-1275 option)<br>Optional MIL-1275 DC Vehicle adapter*<br>Low EMI BVA for Ground Army solution |
| <b>Color</b>                        | Black or NATO Green   |   |
| <b>Overall Dimensions</b>           | 16.24 in x 12.53 in x 3.03 in<br>412.4 mm x 318.2 mm x 77 mm  |   |
| <b>Weight</b>                       | 12.35 lbs (5.6 kg)  |   |

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

| Accessories                     | Optional   |
|---------------------------------|--|
| <b>2<sup>nd</sup> Battery</b>   | 11.1V, 7200mAh Li-Ion, swappable with DVD+/-RW drive |
| <b>2<sup>nd</sup> SATA HDD</b>  | Any 2.5" SATA HDD, max 12.7 mm height*               |
| <b>2<sup>nd</sup> SATA SSHD</b> | Available*   |
| <b>Dual battery charger</b>     | Available  |

| Environmental Ratings             |   |
|-----------------------------------|---|
| <b>MIL-STD 810G Certified</b>     |   |
| Shock                             | 516.6, Procedure I  |
| Vibration                         | A. 514.6, Procedure I, Category 20<br>B. 514.6, Procedure I, Category 14<br>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 and II<br>Operating: 15,000 ft (4,572m)<br>Storage: 40,000 ft (12,192m)   |
| High/Low Temperature              | Method 501.5, Procedure I and II<br>Method 502.5, Procedure I and II<br>Operating: -4°F to 122°F / -20°C to 50°C<br>Storage: -40°F to 158°F / -40°C to 70°C |
| Temperature Shock                 | Method 503.5, Procedure I-A<br>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</sup> <sup>4</sup> Compliant to MIL-STD 810G

\* Contact us for more information

\*\* Specifications subject to change without notice

