

ROCKY RF10

AVIONIC SOLUTION
MIL-STD 1553

AMREL[®]
Pioneering Customized Rugged Solutions



Portable and easy-to-use

The only rugged laptop with a 17.1" display on the The ROCKY RF10 Avionics Solution system directly communicates to aircrafts without an intermediate server. Ideal for bus troubleshooting, diagnostic systems, and applications requiring small handheld solutions, you'll won't miss a thing on its large 17" display. The ROCKY RF10 is independently certified for MIL-STD 810 and IP65 ruggedness standards, so you minimize downtimes and lost data due to accidents and breakage.

A fully rugged, avionic solution

The ROCKY RF10 integrated a 1553-compliant card by inserting it the laptop's proprietary device bay. That's it. No special tooling or parts required.

Brand new application on a mature platform

AMREL's patented Flexpedient[®] device bay allows an existing platform to incorporate applications instantly. Simply, slip in an Application Module and that's it.

Quick and economic prototyping

The development process can demand modifications at every step of the process. Flexpedient allows the developer to make changes inexpensively and quickly. *Watch a video about the revolutionary Flexpedient Technology at www.flexpedient.com*

Biggest display on the market

The ROCKY RF10 17" display is the largest on any fully rugged laptop. Period.

Faster than ever.

It has speeded up its operation with:

- Powerful i7 processor
- Better graphics card
- Expanded memory
- USB 3.0 ports
- Improved storage

Ask about AMREL's other fully rugged Avionic Solutions

- ROCKY DK10 Tablet (12" display)
- ROCKY DB6 Laptop (5" display)
- ROCKY RK10 Laptop (15" display)

RF10 Avionic Solution

Item	Standard	Upgrades
Environmental Rating Operating System	MIL-STD 810G & IP-65 Windows® 7/ 8 Professional	MIL-STD 461F (Military Package only)
CPU	Intel® Sandy Bridge i7-2610UE Processor (4M Cache, up to 2.40 GHz)	
Memory	4GB DDR3 1333MHz	Max: 16GB DDR3 1333MHz
Graphics Display	Intel® HD Graphics 3000 17.1" WXGA (1440 x 900) LCD with LED B/L, Sunlight readable	17.1" WSXGA+ (1680X1050) TFT LCD 17.1" WUXGA+ (1920X1200)TFT LCD Optional Removable 2.5" SATA II SSD
Storage Audio	Removable 2.5" 500GB (5400 rpm) SATA II HDD HD Audio and Stereo Speakers	
Keyboard/Touchpad	Standard 87-key (membrane type) Touchpad (resistive type)	89-key backlit (rubber type) keyboard
Flexible Expansion Bay	Removable 1553 Module Removable SATA II DVD / - RW	Optional: 1553 Software for test and analysis Swappable 2nd battery or 2nd HDD/SSHD or Flexpedient® module
Buttons (Top)	Power Switch Touchpad	
I/O Interface	Left: PS/2 x 1 (KB + Mouse) USB 3.0 x 2 USB 2.0 x 1 (USB Fast Charger) IEEE1394a x 1 GLAN RJ45 x1 Audio Jack x 3 (Line-In/Microphone/Headphone) Express Card Slot (PCI Express) x 1 Rear: Serial DB9 x 2 (Default: COM1, COM2) DC Jack x1 VGA Port x 1 DVI Port x 1 * Printer port x 1	Optional: Serial Port DB9 x 2 Optional: Military DC Jack
Power	Main Battery: 11.1 V/8700 mAh Lithium-Ion battery AC Adapter: 90W AC 100V~240V 50/60Hz	Optional: 2nd Battery (Trade-off with ODD): 11.1 V/8700mAh Lithium-Ion battery
Color / Case	Black or NATO Green Magnesium Alloy	
Overall Dimensions	16.14 in x 12.43 in x 2.79 in 410 mm (L) x 315.8 mm (W) x 70.8 mm (H)	
Weight	12.99 lbs (5.89 kg)	

Integrated Options	Optional
Wireless LAN/PAN	Intel Centrino Advanced-N 6235 (802.11 a/b/g/n, Bluetooth 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)
Wireless WAN	Gobi 3000
GPS	Ublox LEA-6H
Security	TPM v1.2 module
Built-In Vehicle Adapter	DC-in 12V-32V (with surge protector)
Night Vision *	Available

Accessories	Optional
2nd Battery	11.1 V/ 8700 mAh Lithium-Ion rechargeable
Dual Battery Charger	Available
2nd SATA HDD	Any 2.5" SATA HDD capacity, max 12.7 mm,height*
COM 3 / 4	DB9 x 2 ports on left or via Military
Additional Serial Ports	Serial Connector
External In Vehicle Adapter	MIL-STD 1275 DC-in 12V-32V

Standard 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 4
Rain	506.5, Procedure II
Humidity	507.5 Procedure II (aggravated)
Salt Fog	509.5
Altitude	Method 500.5, Procedure I and II Operating: 15,000 ft (4,572 m) Storage: 40,000 ft (12,192 m)
High/Low Temperature	Method 501.5, Procedure I and II Method 502.5, Procedure I and II Operating: -4°F to 131°F / -20°C to 55°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
IEC IP-65 Certified	Dust-tight; water jets

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

