

# ROCKY DK10

AVIONIC SOLUTION  
MIL-STD 1553

**AMREL**<sup>®</sup>  
Pioneering Customized Rugged Solutions



### **A fully rugged, tablet-based, avionic solution**

In order to comply with the 1553 standard, avionic solutions often demand that a special card be placed into a laptop. To meet customer specs, AMREL delivered a convenient handheld solution by integrating a special card into the smaller form factor of a fully rugged DK10 tablet.

### **No peripherals**

This closed case solution feeds power, Ethernet data, and 1553 data through a 1GB LAN 35pin military connector. Compact, low-footprint solutions are an AMREL specialty.

### **Portable and easy-to-use**

With an easy-to-read 12-inch display screen, this mobile handheld system directly communicates to aircrafts without an intermediate server. Ideal for bus troubleshooting, diagnostic systems,

applications requiring small handheld solutions, this customized DK10 can serve a variety of avionic needs. The DK10 tablet is independently certified for military standards of ruggedness, so you minimize downtimes and lost data due to accidents and breakage.

### **Customized by experts**

AMREL customizes over 80% of all the products it sells. No one customizes, prototypes, and delivers faster than AMREL. AMREL is the only fully rugged computer supplier that extends the manufacturer's guarantee to its customizations.

### **Ask about AMREL's other fully rugged Avionic Solutions**

- ROCKY DB6 Laptop (5" display)
- ROCKY RK10 Laptop (15" display)
- ROCKY RF10 Laptop (17" display)

# DK10 Avionic Solution

Item	Standard	Upgrades
<b>Environmental Rating</b>	MIL-STD 810G & IP-65	MIL-STD 461F (Military Package only)
<b>Operating System</b>	Windows® 7or 8.1 Professional	
<b>CPU</b>	Intel® Sandy Bridge i7-2610UE Processor (4M Cache, up to 2.40 GHz)	
<b>Memory</b>	4GB DDR3 1333MHz	Max: 8GB DDR3 1333MHz
<b>Graphics</b>	Intel® HD Graphics 3000	
<b>Display</b>	12.1" XGA (1024 x 768) with LED Backlit Sunlight readable, USB interface	
<b>Storage</b>	Removable 2.5" 500 GB (7200 rpm) SATA II HDD (Optional Removable 2.5" SATA II SSD)	
<b>Audio</b>	Realtek ALC262 HD audio and stereo speakers	
<b>Touchscreen</b>	Single Touch Resistive Panel	
<b>Buttons (Front)</b>	Power, F1~F4, Tab, +/-, Esc, Ctrl, Alt, Del, Fn, Enter, LCD brightness up/down, up/down/left/right arrow keys, Function Backlight, Left Mouse Button, Track Pointer	
<b>I/O Interface</b>	<b>Internal:</b> 1553 card <b>Left:</b> Gigabit LAN RJ45 x 1, USB 2.0 x 1, USB 3.0 x 1 Multi bay: Express Card/54 Slot x 1 (top) & SIM Card Slot x 1 SD Card Slot x 1 (bottom) <b>Right:</b> Serial port DB9 x 1 DC Power Jack x 1: (2-pin & optional MIL 3-pin) <b>Rear:</b> Second battery connector <b>Bottom:</b> Docking Connector x 1	Optional: 1553 Software for Test and Analysis
<b>Power</b>	<b>Main Battery:</b> 11.1 V/7200mAh Li-Ion battery <b>AC Adapter:</b> 90W AC 100V~240V 50/60Hz <b>DC In:</b> 12V~32V with surge protector (Industry 2 pin or Military 3pin)	Second battery  Optional second battery: 11.1 V/7200mAh Li-Ion battery
<b>Color</b>	Black or NATO Green (on Military models)	
<b>Overall Dimensions</b>	12.20 in x 10.04 in x 2.13 in 310 mm x 255 mm x 54 mm	
<b>Weight</b>	5.51 lbs (2.5 Kg)	

Integrated Options	Optional
<b>Wireless LAN</b>	Intel® Centrino Advanced-N 6235 (802.11 a/b/g/n)
<b>Wireless WAN</b>	Gobi 3000
<b>Wireless PAN</b>	Bluetooth®
<b>GPS</b>	Ublox LEA-6H

Accessories	Optional
<b>2<sup>nd</sup> Battery</b>	11.1V, 7200mAh Lithium-Ion
<b>Multi-battery Charger</b>	Charges two primary & two secondary batteries
<b>Docklight</b>	RGB DB15 Port x 1, USB 2.0 x 4 (Standard USB Jack x 2; Sealed USB x 2), Serial Port DB9 x 2 (COM2/COM3: Default RS232), Audio Jacks x 1, DC Power Jack x 1 (Optional Military 3-pin), Optional GLAN RJ45 x 1 Mounts directly to tablet
<b>Stand</b>	For vehicle or office, tilt mechanism, security lock (Same as DK8)
<b>Mini Keyboard KBD</b>	Full QWERTY-keyboard functionality in a compact package .Keys are back lit.
<b>External Keyboard</b>	89-key backlit keyboard

Standard Environmental Ratings	
<b>MIL-STD 810G Certified</b>	
<b>Shock</b>	516.6, Procedure I
<b>Vibration</b>	A. 514.6, Procedure 1, Category 20 B. 514.6, Procedure I, Category 14 C. 514.6, Procedure I, Category 1
<b>Rain</b>	506.5, Procedure II
<b>Humidity</b>	507.5
<b>Salt Fog</b>	509.5
<b>Altitude</b>	Method 500.5, Procedure I, II Operating: 15,000 ft (4,572 m) Storage: 40,000 ft (12,180 m)
<b>High/Low Temperature</b>	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
<b>Temperature Shock</b>	Method 503.5, Procedure I-A Operating: -4°F to 140°F/-20°C to 60°C
<b>Explosive Atmosphere</b>	Method 511.5
<b>Solar Radiation</b>	Method 505.5
<b>IEC IP-65</b>	Dust-protected; water jet

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

