



DataMetrics™

# TuffRider™ MODEL 9300 SERIES TOUCH-SCREEN COMPUTER SYSTEM



## Key Features

- Multiple Display Sizes (8.4", 10", 12", and 15")
- Enhanced Sunlight Readable Touch Screen
- Intel® 1.8 GHz Pentium® M Processor
- Two PC104+ and One Compact Flash Slot
- Wireless Networking Capabilities
- Customizable Memory, Hard Drive, Operating System, and More
- Completely Sealed, Conduction-Cooled Unit
- Shock and Vibration per MIL-STD-810E
- Ram or Custom Mounting Bracket Available
- Featuring Specialized Software Designed for the Surface/Aggregate Mining Industry



## Model 9300 Touch-Screen Computer

The TuffRider™ Series Model 9300 is a rugged and reliable conduction cooled computer/display combination. This computer is ideally suited for use in construction equipment, any type of commercial, military, or public service vehicle, plane, helicopter, or vessel. Equipped with a resistive touch screen interface and powered by a SBC with the Intel Pentium® M processor with Intel Speedstep® technology makes the Model 9300 ideal for mobile applications. In addition, the Model 9300 is equipped with all of the interfaces you would find on a normal desktop computer.

In addition to the sealed design, this computer is designed and tested to withstand extreme levels of shock and vibration found in all mobile applications. The frigid cold winter nights of a North Dakota coal mine or the stifling hot desert sun are no match for the TuffRider™. With operating temperatures ranging from 32°F to 122°F and non-operating ranging from -40°F to 149°F, this computer is capable of withstand the most extreme conditions.

Additional information on the TerraRover GPS Systems can be found by visiting [www.datametrics.com](http://www.datametrics.com) or in the TerraRover GPS Systems product brochure for the Surface & Aggregate Mining Industry.



\*Simulated Image

**Fully Mission Capable™**

## Environmental Characteristics

Temperature - Operating . . . .0°C to 50°C (32°F to 122°F)  
 Temperature - Storage. . . . .-40°C to 65°C (-40°F to 149°F)  
 Shock - Operating . . . . .10g, 6-9ms, per MIL-STD-810E  
 Shock - Non-operating. . . . .20g, 6-9ms, per MIL-STD-810E  
   Bench Handling: 3g non-operating  
 Vibration . . . . .MIL-STD-810E, Method 514.4, Categories 1  
   and 8 for installed platforms  
 Humidity. . . . .5-90% @ 40°C (non-condensing)  
 Altitude - Operating . . . . .-2000 to 15,000 ft.  
 Altitude - Non-operating. . . . .-2000 to 40,000 ft.  
 EMC/EMI . . . . .FCC part 15, Class B

## Performance Characteristics

Note: Custom configurations are available

Processor . . . . .Intel Pentium® M 1.8GHz with 400MHz FSB,  
   1MB Cache  
 Operating System . . . . .Microsoft Windows XP Pro, others optional  
 Memory . . . . .512MB (1GB Max)  
 Storage . . . . .4GB Compact Flash (8GB Optional)  
 PCCard Slots - Optional . . . . .Two onboard  
 Wireless LAN - Optional . . . . .802.11b/g compatible PCCard  
 Display - Standard . . . . .8.4" LVDS, 800 x 600 Active Matrix  
   10.4", 12.1", and 15.1" also available  
   (Sunlight Readable Resistive Touch-Screen Display)  
 Primary Interfaces . . . . .1x Serial RS-232  
   3x USB 2.0 Type A  
   1x Keyboard/Mouse  
   1x RJ-45 10/100 Ethernet  
   1x Audio: Mic, Line In, Line Out  
   1x Video Out: VGA 15 pin  
   Resistive Touch Screen  
 Interfaces - Optional . . . . .2ea PC104 card slots are available for I/O  
   expansion.

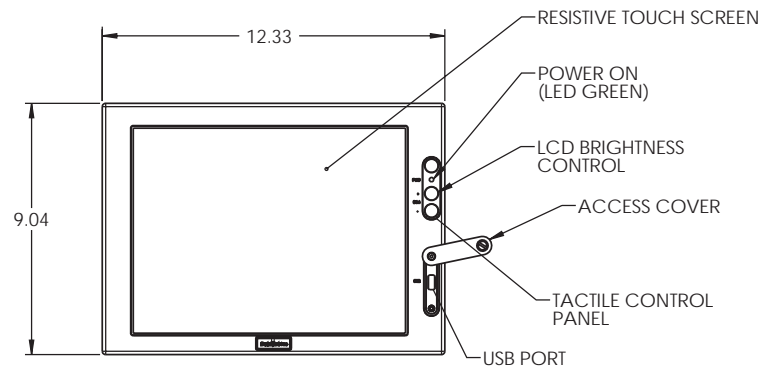
## Electrical Characteristics

Power . . . . .10 - 28 Vdc, 12/24 Vdc Nominal  
 Power Consumption . . . . .30W Nominal  
   5W Standby  
   40W Max

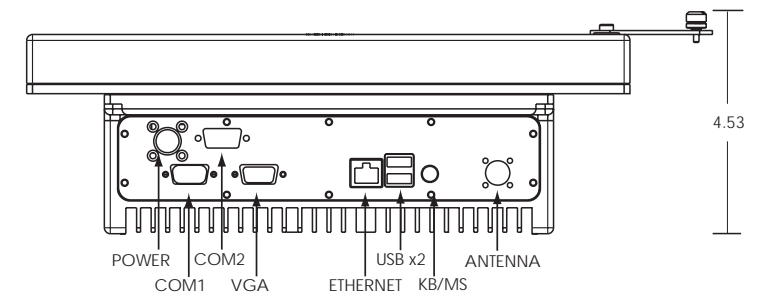
## Physical Characteristics

Size . . . . .6.57" H x 9.18" W x 3.75" D (8.4" Screen)  
   8.10" H x 10.60" W x 4.53" D (10.4" Screen)  
   9.04" H x 12.33" W x 4.53" D (12.1" Screen)  
   11.75" H x 15.39" W x 4.53" D (15.1" Screen)  
 Weight . . . . .6.5 lbs. (8.4" Screen)  
   7.5 lbs. (10.4" Screen)  
   8.5 lbs. (12.1" Screen)  
   10.5 lbs. (15.1" Screen)

## Front View (12.1" Screen Size)



## Bottom View (12.1" Screen Size)



## Ordering Information

Part Number	Description
9301-08a1-1XX-P047	<b>TuffRider</b> . 8.4" Screen, Acrylic Black Fine Texture
9301-10a1-1XX-P047	<b>TuffRider</b> . 10" Screen, Acrylic Black Fine Texture
9301-12a1-1XX-P047	<b>TuffRider</b> . 12" Screen, Acrylic Black Fine Texture
9301-15a1-1XX-P047	<b>TuffRider</b> . 15" Screen, Acrylic Black Fine Texture
"a" 0=no Software 1=TerraRover 2=Dredge Monitor 3=BlastRig Monitor 4=Boom Monitor "X" indicates ordering options. Contact DataMetrics for other options and custom configurations.	