

# Panther DR10-M19

full rugged

19" tablet



  
WATER

  
SAND

  
FROST

  
HEAT

  
SHOCK

  
DROP

rodas Panel PCs are based on sophisticated standard IT (COTS) products. roda combines the Panther DR10 with its COTS displays in different sizes, thereby reducing delivery and development times as well as spare parts storage.

## Technical Specification

<b>Display</b>	19" SXGA+ (1280×1024) <ul style="list-style-type: none"><li>• glass touch screen with pen</li></ul>
<b>Chipset</b>	Intel® Huron River Plattform Intel® Cougar Point QM67
<b>CPU</b>	Intel® Core™i7-2610UE™, Sandy Bridge, 1.5 GHz (2.4 GHz max. Turbo Frequency)
<b>Graphics (GPU)</b>	Intel® HD Graphics 3000
<b>Memory</b>	up to 8 GB DDR3 1333 MHz SO-DIMM (1x slot)
<b>Storage</b>	exchangeable 2.5" SATA HDD (500 GB Std.) >> optional with SATA SSD (MLC or SLC)
<b>Audio</b>	HD audio, stereo speaker
<b>Keypad</b>	ON/OFF, LCD brightness, keyboard/ brightness, PiP ON/OFF
<b>Power supply</b>	<ul style="list-style-type: none"><li>• Li-Ion battery, 10.8 V, 5800 mAh</li><li>• AC-adapter 100-240 V, 50/60 Hz, 90 W</li><li>• optional vehicle adapter 12 V<sub>DC</sub> ±0,5 V<sub>DC</sub></li></ul>
<b>Security</b>	>> optional TPM1.2 module

## Interfaces

### MIL connectors: tdb

X1: DC-In  
X2: LAN 100 MBit  
X3: USB2.0 for keyboard  
X4: BNC for framegrabber card  
X5: DC-In

### Standard connectors:

2x USB2.0 (1x fast charge),  
1x Gigabit LAN (RJ45), 1x serial (DB9),  
1x docking connector

Multibay: 1x ExpressCard/54, 1x SIM-  
card slot, 1x SD-card slot

## Certification

IP65

### Designed to meet:

MIL-STD 810G, MIL-STD 461F

## Housing

rugged aluminum/magnesium housing

## Colour

front side: black RAL 9005  
rear side: Nato-oliv RAL 6031 HR

## Dimensions

444 mm x 385 mm x 94 mm

## Weight

< 10 kg

MIL-STD 810G	operating	storage
<b>Altitude</b> Method 500.5, (Procedure I, II)	4572 m (15000 ft)	12192 m (40000 ft)
<b>Temperature</b> Method 501.5 & 502.5, (Procedure I, II)	-30°C to +50°C	-40°C to +70°C
<b>Temperature Shock</b> Method 503.5, (Procedure I)	-20°C to +60°C	-20°C to +60°C
<b>Rain</b> Method 506.5, (Procedure I)	276 kPa, 0.5 - 4.5 mm diameter	276 kPa, 0.5 - 4.5 mm diameter
<b>Humidity</b> Method 507.5, (Procedure I)	N/A	ten 24 h test cycles, 95 %
<b>Salt fog</b> Methode 509.5	N/A	5 %, 35° C
<b>Vibration</b> Method 514.6, Category 20 (Procedure I)	Comp. Wheeled Vehicle Vibration	Comp. Wheeled Vehicle Vibration
<b>Schock / Stoß</b> Methode 516.6, (Prozedur I)	40 g, 11 ms	40 g, 11 ms

 **WATER JET**  
RESISTANT

 **SHOCK**  
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 **DROP**  
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 **FROST**  
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 **HEAT**  
RESISTANT

## Optional PiP picture in picture function

- The Picture in Picture function in a DR10-M19 is realized with a internal frame grabber. The frame grabber is completely controlled by the application of the customer.
- By pressing the membrane key „PIP ON/OFF“ a command signal („P“) is sent to the the application software from the serial interface (RS232) which turns the camera image on or off.



## Optional DC converter for vehicle installation

- DC/DC converter (cable length ca. 50 cm)  
18-32 V<sub>DC</sub>, nominal 24 V<sub>DC</sub>  
Power consumption max. 65 W

X1: DC-IN      SJT00RT-08-98PN (014) Amphenol  
with pin contacts

X2: DC-OUT    cable with SJTG06RT-14-5SN (014) Amphenol  
with socket contacts L= ca. 370 mm

Housing :      protection IP 65  
paint: bronze green RAL 6031-HR  
screen printing: lemon yellow RAL 1012

Weight:        ca. 0.7 kg

Transient protection according to VG 96916 T5 without intermittent



**roda**  
solid IT-solutions

Landstraße 6  
77839 Lichtenau, Germany  
www.roda-computer.com

Tel.: +49 (0) 72 27 / 95 79 - 0  
Fax: +49 (0) 72 27 / 95 79 - 20  
mail@roda-computer.com