

# Micronet SmarTab Platform Datasheet



*The next generation of rugged Tablet for  
Fleet and Mobile Workforce  
Management*

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powered by

**ANDROID**

## Introduction

# Micronet SmarTab Platform Overview

The Micronet SmarTab is a rugged Android tablet, designed for both in-vehicle and out-of-vehicle use. It provides a versatile vehicle-centric mobile computing platform for a variety of MRM (Mobile Resource Management) applications.

With integrated GPS, cellular communication, and cameras, and with support for a suite of vehicle and peripheral interfaces, SmarTab enables a host of advanced mobility solutions such as: ELD HOS, Driver Behavior, ADAS, Video Analytics, Driver Distraction Solutions, Routing and Dispatch, Fuel Efficiency, Navigation, Fleet Tracking, Driver Interaction, and more.

*Designed to operate in a rough commercial automotive environment, including a wide range of temperatures, vibrations and shocks, the Micronet SmarTab lowers the Total Cost of Ownership*

## Micronet SmarTab Platform Key Features

Device Key Feature	Details
<b>Platform Core</b>	
<b>Operating System</b>	Google Android™ 5.1
<b>Application Development Environment</b>	Google Android™ ADT
<b>Processor</b>	Qualcomm, Snapdragon 410, 1.2 GHz (4 x ARM® Cortex™ A53)
<b>RAM</b>	1 GB LPDDR3 RAM
<b>Flash</b>	8 GB eMMC
<b>Memory Card Support</b>	Micro SD card slot - up to 32 GB (internal)
<b>Watchdog</b>	<ul style="list-style-type: none"> <li>- SW based for application recovery</li> <li>- HW based for system recovery</li> </ul>
<b>User Interface</b>	
<b>Display</b>	5.5" Color TFT LCD, HD (1280 X 720)
<b>Display brightness</b>	500 Nits
<b>Touch Screen</b>	CTP - Capacitive Multi-touch panel
<b>Light Sensor</b>	Configurable for device backlight adjustment
<b>Internal Microphone</b>	High sensitive
<b>Internal Speaker</b>	0.8W
<b>USB</b>	USB OTG port
<b>Wireless Communication (with Integrated, Onboard internal antennas)</b>	
<b>Cellular</b>	<ul style="list-style-type: none"> <li>- 3.5G</li> <li>- 4G LTE (North America)</li> <li>- USIM - 3FF (Micro)</li> </ul>
<b>GPS</b>	High Sensitive, AGPS and GLONASS support
<b>Wireless LAN</b>	WiFi - 802.11 b/g/n, 2.4GHz
<b>Bluetooth</b>	V4.1/BLE
<b>Near Field Communication</b>	NFC -13.56MHz, IS15693 and IS18000-3
<b>Motion Control</b>	
<b>Motion Sensors</b>	<ul style="list-style-type: none"> <li>- Compass</li> <li>- Gyroscope</li> <li>- Accelerometer</li> </ul>

Device Key Feature	Details
<b>Integrated Cameras</b>	
Rear Facing	8MP + Flash
Front Facing	2MP
<b>Power</b>	
Input Power	5V DC power input by USB Panel connector or by the Device Cradle
Internal Battery	Li-Ion 2,000mA Internal Battery
<b>Mechanical</b>	
Vibration	J1455 Compliant
Mechanical Shock	J1455 Compliant
<b>Environmental</b>	
Temperature Range	<ul style="list-style-type: none"> <li>- Operating: -4 °F to +158 °F (-20 °C to +70 °C)</li> <li>- Storage: -22 °F to +176 °F (-30 °C to +80 °C)</li> </ul>
Humidity	95% ±5%RH, +40°C, non-condensing
IP	IP65
RoHS	RoHS II Compliant
<b>Certifications</b>	
Standard Compliance	FCC, PTCRB, CE, E-mark





## Standard Cradle Key Features

<b>Communication Interfaces</b>	
<b>RS232 Ports</b>	1 X 3 Wire (TX, RX, GND) 300 - 115200 bps
<b>Input Power and Ignition status control</b>	
<b>Input Power</b>	<ul style="list-style-type: none"> <li>- Direct vehicle battery connection (12V/24V)</li> <li>- ISO 7637 Compliant</li> </ul>
<b>Digital Input</b>	1 x Automotive Digital input (Ignition switch status control)
<b>Mechanical</b>	
<b>Vibration</b>	J1455 Compliant
<b>Mechanical Shock</b>	J1455 Compliant
<b>Device Mounting</b>	RAM® Mount mounting arm compatible
<b>Environmental</b>	
<b>Temperature Range</b>	<ul style="list-style-type: none"> <li>- Operating: -4 °F to +158 °F (-20 °C to +70 °C)</li> <li>- Storage: -22 °F to +176 °F (-30 °C to +80 °C)</li> </ul>
<b>Humidity</b>	95% ±5%RH, +40°C, non-condensing
<b>IP</b>	IP45
<b>RoHS</b>	RoHS II Compliant
<b>Certifications</b>	
<b>Standard Compliance</b>	FCC, CE, E-Mark

## Enhanced Cradle Key Features

<b>Communication Interfaces</b>	
<b>RS-232</b>	<ul style="list-style-type: none"> <li>- 1 X EIA-232 5 Wires (Tx, Rx, RTS, CTS, GND)</li> <li>- 3 x EIA-232 3 Wires (Rx, Tx, GND)</li> </ul>
<b>USB</b>	1 X USB 2.0 Host Port (LS/FS/HS)
<b>Peripherals Control</b>	
<b>Inputs</b>	<ul style="list-style-type: none"> <li>- 7 X inputs (0 – 32V)</li> <li>- Configurable Analog/Digital functionality</li> </ul>
<b>Outputs</b>	4 x Open Collector Outputs
<b>Status indication</b>	
<b>LED</b>	1 X Status LED
<b>Buzzer</b>	1 X Notification Buzzer
<b>Audio</b>	
<b>External Audio interfaces</b>	<ul style="list-style-type: none"> <li>- 1 X external Microphone connection</li> <li>- 1 X external Speaker connection</li> </ul>
<b>Vehicle Diagnostic</b>	
<b>CAN BUS</b>	2 X CAN channels
<b>J1708</b>	1 X SAE-J1708
<b>Power</b>	
<b>Input Power</b>	<ul style="list-style-type: none"> <li>- Direct vehicle battery connection (12V/24V)</li> <li>- ISO 7637 Compliant</li> </ul>
<b>Mechanical</b>	
<b>Vibration</b>	J1455 Compliant
<b>Mechanical Shock</b>	J1455 Compliant
<b>Device Mounting</b>	RAM® Mount mounting arm compatible
<b>Environmental</b>	
<b>Temperature Range</b>	<ul style="list-style-type: none"> <li>- Operating: -4 °F to +158 °F (-20 °C to +70 °C)</li> <li>- Storage: -22 °F to +176 °F (-30 °C to +80 °C)</li> </ul>
<b>Humidity</b>	95% ±5%RH, +40°C, non-condensing
<b>IP</b>	IP45
<b>RoHS</b>	RoHS II Compliant
<b>Certifications</b>	
<b>Standard Compliance</b>	FCC, CE, E-Mark

## Platform Accessories

Features	Details
<b>Mounting Arm</b>	<ul style="list-style-type: none"> <li>- RAM® Standard mounting Arm</li> <li>- RAM® Suction mounting Arm</li> </ul>



## GSD™ Software Services

Micronet's GSD™ (Guardian System Design) is a cloud-based SaaS platform for managing mobile devices in the field.

GSD™ enables remote delta-based, over-the-air, firmware and application updates allowing customers to keep devices relevant anywhere, anytime. It features Mobile Device Management functionality, Remote-Control, and self-tests.

Administrators can proactively monitor and manage connected devices with a flexible web interface.

