



# Micronet SmartHub-U Product Datasheet



*The Next Generation Rugged On-Board  
Computing Platform*

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## Micronet SmartHub-U Platform Overview

Micronet SmartHub-U is a rugged, next-generation Android On-Board Telematics Computer. It provides a rugged and versatile vehicle-centric mobile-computing platform for a variety of in-cab mobility applications and solutions.

With integrated GPS, Cellular Communication, WiFi, BT, various sensors, cameras, and with support for a suite of vehicle and peripheral interfaces - Micronet SmartHub-U enables a host of advanced mobility solutions such as: Fleet Management, ELD BYOD HOS, Driver Behavior, ADAS, Video Analytics, Driver Distraction Alerts, Routing and Dispatch, Fuel Efficiency, Speed by Street, 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 SmartHub-U provides Enhanced Solution Life Cycle.

**By incorporating the Best-in-Class Enabling Technology Feature Set,  
Micronet SmartHub-U Lowers the Total Cost of Ownership**

## Micronet SmartHub-U Product Key Features

Device Key Feature	Details
<b>Platform Core</b>	
Operating System	Google Android™ 5.1.1
Application Development Environment	Google Android™ ADT
Processor	Snapdragon 410 – 1.2 GHz Quad Core (4x ARM® Cortex™ A53)
CO-Processor	Freescale K20_120
CO-Processor RTOS	MQX
RAM	1 GB LPDDR3 RAM
ROM	8 GB eMMc
Memory Card Support	Internal Micro SD card slot - up to 32GB
Watchdog	<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>	
Hardware Key	1 x Hidden Reset Button
LED	1 x Programmable status LED
Speaker	External Speaker connection
Microphone	External Microphone connection
<b>Communication Interfaces</b>	
RS-232	<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, (1 x RS-485, SW Configurable)</li> </ul>
USB	1 x USB 2.0 Host Port
<b>Wireless Communication (with Integrated, Onboard internal antennas)</b>	
Cellular	<ul style="list-style-type: none"> <li>- 3.5G</li> <li>- 4G LTE (North America)</li> <li>- USIM - 3FF (Micro)</li> </ul>
Wi-Fi	802.11 b/g/n, 2.4GHz
Bluetooth	V4.1/BLE
<b>Location Control</b>	
GPS	<ul style="list-style-type: none"> <li>- High Sensitive, AGPS/GLONASS support</li> <li>- External Antenna connection</li> </ul>
<b>Peripherals Control</b>	
Inputs	<ul style="list-style-type: none"> <li>- 7 x Inputs (0 – 32V)</li> <li>- Configurable Analog/Digital functionality</li> </ul>
Outputs	4 x Open Collector Outputs

Device Key Feature	Details
<b>Motion Control</b>	
Motion Sensors	<ul style="list-style-type: none"> <li>- Compass</li> <li>- Gyroscope</li> <li>- Accelerometer</li> <li>- Wiggle sensor - Automatic Power-up Trigger</li> </ul>
<b>Vehicle Diagnostic</b>	
CAN BUS	2 x CAN BUS Ports, (1 x SWC – SW Configurable )
J1708	1 x SAE-J1708
<b>Power</b>	
Input Power	<ul style="list-style-type: none"> <li>- Direct vehicle battery connection (12V/24V)</li> <li>- ISO 7637 Compliant</li> </ul>
Power Backup	<ul style="list-style-type: none"> <li>- Super Capacitors</li> <li>- 20 seconds of full device operation support</li> </ul>
<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

## Physical Characteristics

Dimension	Measurement	
<b>TREQr-317 Dimensions &amp; Weight</b>		
Width	6.14"	156mm
Height	4.25"	108mm
Depth	1.50"	38mm

## Platform Accessories

Features	Details
<b>Peripheral Cables</b>	
<b>Main interface cable</b>	<ul style="list-style-type: none"><li>- Power, I/O and Communication interfaces</li><li>- Cable customization option available</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-Diagnostic.

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



For more technical details and commercial information, please contact us at – [sales@micronet-inc.com](mailto:sales@micronet-inc.com)  
To learn more about Micronet Product and Services, please visit our Website – [www.micronet-inc.com](http://www.micronet-inc.com)