MICRONET

Micronet SmartHub
Platform Datasheet

The Next Generation Rugged On-Board Computing Platform

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ANDROID

Micronet SmartHub Platform Overview

Micronet SmartHub 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 - SmartHub 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 provides Enhanced Solution Life Cycle.

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

Micronet SmartHub Product Key Features

Device Key Feature	Details
Platform Core	
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	- SW based for application recovery - HW based for system recovery
User Interface	
Hardware Keys	- 1 x Main Function Key - 1 x Reset Button
LEDs	3 x Programmable Status LEDs
Speakers	2 x 2W Internal Speakers
Microphone	High Sensitive Internal Microphone
Communication Interfaces	
RS-232	- 1 X EIA-232 5 Wires: Tx, Rx. RTS, CTS, GND - 3 x EIA-232 3 Wires: Rx, Tx, GND
USB	1 x USB 2.0 Host Port
Wireless Communication (with Integrated, Onboard internal antennas)	
Cellular	- 3.5G - 4G LTE (North America) - USIM - 3FF (Micro)
GPS	High Sensitive, AGPS/GLONASS support
Wi-Fi	802.11 b/g/n, 2.4GHz
Bluetooth	V4.1/BLE
Near Field Communication	NFC -13.56MHz, IS15693 and IS18000-3
Peripherals Control	
Inputs	- 7 X inputs (0 – 32V) - Configurable Analog/Digital functionality
Outputs	4 x Open Collector Outputs

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Device Key Feature	Details
Motion Control	
Motion Sensors	- Compass - Gyroscope - Accelerometer - Wiggle sensor - Automatic Power-up Trigger
Vehicle Diagnostic	
CAN BUS	2 x CAN BUS Ports, (1 x SWC – SW Configurable)
J1708	1 x SAE-J1708
Power	
Input Power	- Direct vehicle battery connection (12V/24V) - ISO 7637 Compliant
Power Backup	- Super Capacitors - 20 seconds of full device operation support
Mechanical	
Vibration	J1455 Compliant
Mechanical Shock	J1455 Compliant
Environmental	
Temperature Range	- Operating: -4°F to +158°F (-20 °C to +70 °C) - Storage: -22°F to +176°F (-30 °C to +80 °C)
Humidity	95% ±5%RH, +40°C, non-condensing
IP	IP40
RoHS	RoHS II Compliant
Certifications	
Standard Compliance	FCC, PTCRB, CE, E-mark

Physical Characteristics

Dimension	Measurement	
TREQr-317 Dimensions & Weight		
Width	4.96"	126mm
Height	4.37"	111mm
Depth	1.38"	35mm

Platform Accessories

Features	Details
Peripheral Cables	
Main interface cable	- Power, I/O and Communication interfaces - Cable customization option available
Mechanical Accessories	
Mounting Arm	- RAM® Standard mounting Arm - RAM® Suction mounting Arm

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
To learn more about Micronet Product and Services, please visit our Website – www.micronet-inc.com