

A-317

Datasheet

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powered by

ANDROID

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Introduction

A-317 Platform Overview

The A-317 provides OEMs (Original Equipment Manufacturers) and Telematics ASPs (Application Service Providers) with a rugged, versatile vehicle-centric mobile-computing platform for a variety of MRM (Mobile Resource Management) applications.

The A-317 platform supports the Google Android™ 4 operating system.

The A-317 is an Open Platform, offering a comprehensive development environment for independent application programming and system integration.

The A-317 device architecture provides a solid and cost-effective design by simplifying maintenance tasks, significantly extending product life expectancy, and lowering the total cost of ownership (TCO).

The A-317 is designed to operate in a rough commercial automotive environment, including a wide range of temperatures, vibrations and shocks.

A-317 Platform lowers the Total Cost of Ownership

A-317 Platform Key Features

Device Key Feature	Details
Platform Core	
Operating System	Google Android™ 4
Application Development Environment	<ul style="list-style-type: none"> - Google Android™ ADT - JavaScript
Processor	<ul style="list-style-type: none"> - ARM Cortex™ - A8 Core - TI Omap 3715 1GHz - Graphics processing unit (GPU)
RAM	512MB
Flash	512MB
Memory Card Support	<ul style="list-style-type: none"> - SD / MMC (SDHC support) card slot x133, up to 32GB - SDIO interface
Audio CODEC	<ul style="list-style-type: none"> - Multi-channel - System audio support - Optional Cellular Voice and Bluetooth audio support
Real Time Clock	<ul style="list-style-type: none"> - HW based - Device Wakeup alarm configuration capability
Watchdog	<ul style="list-style-type: none"> - SW based for application recovery - HW based for system recovery
User Interface	
Display	7" Color TFT LCD, WVGA (800 X 480)
Display Backlight	Multi-level backlight (white LED)
Touch Screen	Analog Resistive, 4 wire
Keypad	Rubber tactile, multi-level backlight
Light Sensor	Configurable for device backlight adjustment
Internal Microphone	<ul style="list-style-type: none"> - High sensitivity - Noise filtered
Internal Speaker	<ul style="list-style-type: none"> - Mono, 1 x 3W 90 dB nominal @ 0.1m - Multi-level volume control
Communication Interfaces	
RS232 Ports (on device connector)	<ul style="list-style-type: none"> - 1 X 5 Wire (TX, RX, RTS, CTS, GND), 300 - 115200 bps - 1 X 3 Wire (TX, RX, GND) 300 - 115200 bps
USB OTG Port (on device connector)	USB 2.0 – low, full and high speed
USB Host Port1 (on device connector)	USB 2.0 - low, full and high speed, 500mA maximum
USB Host Port2 (on Device Panel)	USB 2.0 - low, full and high speed, 500mA maximum
Wireless Interfaces	
Wireless LAN	<ul style="list-style-type: none"> - 802.11 b/g/n - Internal on-board antenna

Device Key Feature	Details
Bluetooth (combined with Wireless LAN option above)	<ul style="list-style-type: none"> - Class 2 - Data transport support only - Internal on-board antenna
Peripherals Control	
Digital I/O	<ul style="list-style-type: none"> - 1 x Automotive inputs - 1 x Open collector outputs
Analog Input	0V – 30V
Power	
Input Power	<ul style="list-style-type: none"> - Direct vehicle battery connection (12V/24V), ISO 7637 compliant - Super Capacitors for Data storage protection
Mechanical	
Vibration	According to J1455
Mechanical Shock	According to J1455
Environmental	
Temperature Range	<ul style="list-style-type: none"> - 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	IP65
RoHS	Compliant
Certifications	
Standard Compliance	FCC, CE

Physical Characteristics

Dimension	Measurement	
A-317 Dimensions & Weight		
Width	8.70 inch	221 mm
Height	5.23 inch	133 mm
Depth	1.18 inch	30 mm
Weight	17.50 oz.	498 Gram

OEM Optional Features* (requires M-O-Q)

Features	Details
Interface Connections	
RS422 Port (Replacing RS232 Com Port 1)	EIA RS422
External Audio	<ul style="list-style-type: none"> - Class A/B or Class D external speaker amplifier (Mono) - External microphone input (Mono)

*Please inquire about Minimum-Order-Quantity

Platform Accessories

Features	Details
Peripheral Cables	
Main interface cable	Supporting the platform interfaces
Mechanical Accessories	
Mounting Arm	RAM® Mount, flexible, multi-directional mounting
SD Card Protective Cover	Optional Tamper proof SD card cover
SIM card protective cover	Optional Tamper proof SIM card cover
Front Panel Label	Optional Customizable "logo" printout

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.

