

The **AMG1020** Advanced Mobile Gateway is a next generation gateway and on-board applications platform for Automated Vehicle Location and CAN/J1939 Diagnostics (AVLD). The on-board Advanced RISC Machine (ARM) Processor and Controller Area Network (CAN) micro-controller provide a computational, logging and application interface designed to collect, transmit, receive and interact with data. The AMG1020 provides various digital and analog interfaces for local pc/laptop/netbook, peripherals and software applications. The **AMG1020** is a key component of, and functions within, a complete AVLD service offering.



Key Features

- **Onboard CDMA, GSM and IEEE 802.11 b/g radios** allow choice of communication link
- **Carrier (Radio) Switching** is a proprietary application operating on and controlling the AMG radios (CDMA, GSM, & IEEE 802.11 b/g) performing carrier switching based on business rules (signal strength, carrier & radio availability and cost) to maximize data transmission budget
- **Over-the-Air Updates** allows configuration and firmware updates to be remotely applied to the AMG1020
- **Store-and-Forward** ensures that data is never lost - even when a cell connection is unavailable for extended periods of time. Store-and-Forward applications include; CAN-Fault diagnostic dumps, fuel economy, wheel speed, location and idle time
- **Robust Enclosure** designed to automotive standards

Specifications

Radios

GPS	High Accuracy Integrated GPS Receiver
Cellular	CDMA GSM
IEEE 802.11 b/g	AP or client

Processor

ARM	Automotive grade high power processor
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Antenna Options

Interior (inside vehicle cab)	GPS, CDMA, and GSM (helical) Antennas contained in removable "backpack" with 1m cable for easy remote installation and RF reception
External (outside vehicle cab)	External Aerodynamic Antenna (CDMA, GSM, GPS coverage)
Antenna Connectors	FAKRA (GPS, CDMA, GSM)

Interfaces

I ² C Interface or I/O expansion SAE J1128 compliant harness	Mini-fit Molex modular connector with Power + CAN + Ignition Sensor + Parking Brake Sensor
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General

Connectors	Mini-Fit Modular
Input Voltage	12 or 24 VDC

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