



Innovation for the Connected Vehicle World - Axiomtek's "Agent" Product Series



In response to the new world order - the increasingly IoT-driven transportation market that includes connected cars, mass transit vehicles and truck fleets, Axiomtek has focused on solutions that helped our transportation ODM/OEMs stay on top of their game. These solution-ready products are purpose-built for smart transportation applications, with choices of x86 and RISC-based platforms to suit the difference needs in the market. These comprehensive product lines include transportation-certified embedded systems; edge computers; industrial IoT gateways; and x86 and RISC-based motherboards with a variety of form factors.

Understanding that our vehicle-based systems integrator customers have different preferences and project requirements, we recently launched the RISC-based “Agent” product series. The very first of our RISC-based fanless embedded systems, the **Agent336**, is built for ease of customization. It offers rich, isolated I/Os with high expansion capabilities. The **Agent336** is equipped with the latest NXP i.MX 8M, QuadLite 1.3 GHz platform with E-Mark certification. It is made for smart transportation needs – with a wide operating temperature range of -40°C to +70°C (-40°F to +158°F), isolated CAN bus, wide range power input and onboard eMMC and LPDDR4. It has Axiomtek’s **Intelligent Vehicle Power Management Solution** and is Linux and Android OS-ready. GPS and Gyro sensor are available as optional features for this wall-mount transportation gateway.

Vehicle Power Protection

SCP (short circuit protection) / OVP (over voltage protection) / UVP (under voltage protection)



ACC ON Delay (T1)

Protecting system from damages caused by inrush current and discontinuous power supply.



ACC OFF Delay (T2)

In order to apply ACC, the device will consume the main vehicle battery.



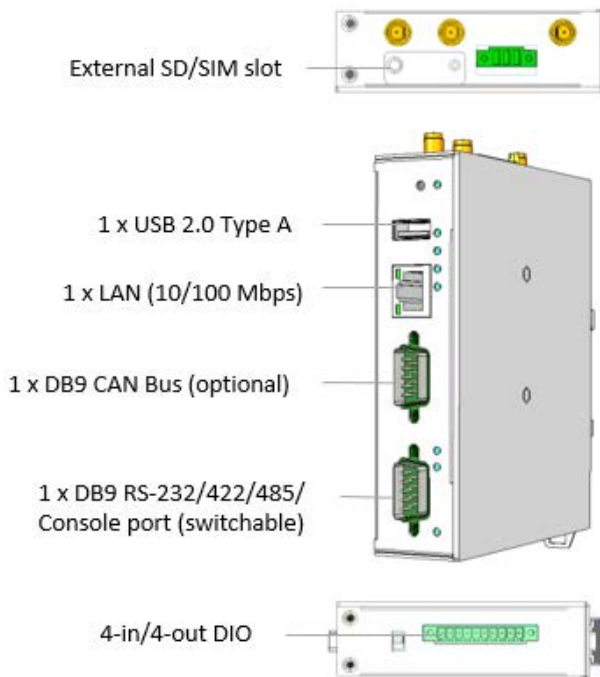
Shutdown Delay (T3)

A shutdown buffer time for data saving after vehicle ignition is off.



The upcoming **Agent200**, our DIN-Rail, RISC-based gateway device with NXP i.MX6 UL processor, is versatile with great built-in flexibility in its many options. This compact and ruggedized form factor packs a punch with its rich I/Os ranging from DIO and USB as well as great and versatile communication capabilities. The DIN-Rail vehicle gateway device offers high customer values and fast deployment with its optional features. It comes equipped with Ethernet and COM ports for connectivity and external SD/SIM slots. Built for communication and data transfer, it offers two full size PCIe Mini Card slots and numerous additional options for customization – including WIFI, 4G, LTE, LoRa and LoRAWAN.

Agent200



Item	Specifications
CPU	NXP i.MX 6 UL processor, ARM® Cortex®-A7@528 MHz
Memory	256MB DDR3-1600 onboard
Storage	4GB eMMC onboard
I/O	1 x USB 2.0 Type A 1 x 4-in/4-out DIO 1 x DB9 RS-232/422/485 & console port 1 x 10/100 Mbps Ethernet 1 x CAN Bus (optional)
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Power Input	9 to 36V DC power input
Optional Accessories	Wi-Fi/4G/LTE, <u>LoRa (RYLR40H)</u> , <u>LoRaWAN (S76PCIE)</u>
OS	Yocto 2.4 (rocko), Kernel 4.9.88 Ubuntu 18.04

Our ecosystem of transportation partners of leading software, hardware and peripherals solution providers - which include Intel®, Genetec, Alstom, Thales, Siemens and Panasonic - and our experienced engineering team can help minimize project deployment headaches. For various transportation-related applications, i.e., surveillance, infotainment, transportation Internet of Things (TIoT) and predictive maintenance, **visit our Axiomtek's rich product lines here for more information.**

Agent336 - Feature-Rich Transportation Gateway System



- NXP i.MX 8M processor
- 2GB LPDDR4 onboard; 8GB eMMC onboard
- One LAN port (10/100/1000 Mbps)
- Two RS-232/422/485
- One isolated CANBus (D-SUB 9)
- One isolated 2-in/2-out DIO (TB 2 x 4P)
- Two full size PCIe Mini card slot
- External SIM card slot
- GPS and Gyro sensor/G sensor (optional)
- E-Mark certificate
- Yocto Linux ,Kernel L4.9.51, Android 08.1.0