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)

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.
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

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>CPU</td>
<td>NXP i.MX 6 UL processor, ARM® Cortex®-A7@528 MHz</td>
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<tr>
<td>Memory</td>
<td>256MB DDR3-1600 onboard</td>
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<tr>
<td>Storage</td>
<td>4GB eMMC onboard</td>
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| 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, LoRa (FYL40Hi), LoRaWAN (S7GPCIE) |
| OS              | Yocto 2.4 (rocko), Kernel 4.9.51, Ubuntu 18.04 |