

AUTOMOTIVE GATEWAY ECU

Automotive grade electronics and software platform based on AUTOSAR² from ARCCORE offers a complete automotive solution ready for high volume production.

The comprehensive communication and I/O support make this ECU perfect for body and gateway applications. With extensive software development support³ including auto generated routing table and test vectors, customer specific functionality can effortlessly be added. Highly suitable for rapid-prototyping and pre-series unit.

Key Features

- Designed for automotive series production
- Standardized hardware and software platform
- Multiple CAN and LIN buses for gateway applications
- Versatile interfaces incl. GPIO, ADC and PWM outputs
- Power management - wake-up from CAN and I/O
- Comprehensive software development support incl. auto generated signal routing and test vectors³
- Continues deployment support incl. build server, unit and HIL tests enabling fast and reliable software releases³

Application areas

- Central control unit
- Body control module
- Automotive gateway

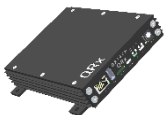


Technical data

System:	Freescale MPC5516E PowerPC e200z1 Core 80MHz, 1 MB Flash & 64KB RAM
Software:	ISO 15765 bootloader (incl. SWDL tool) ¹ AUTOSAR 4.1.0 from ARCCORE ²
Connectivity:	3 x Dual Wire CAN (wakeup) 1 x Single Wire CAN (wakeup) 2 x LIN master (optional)
Peripherals:	1 x Ignition input (wakeup) 4 x Analog input, 10bit, 0V – 32V 5 x Low digital input (pull-up) 5 x High digital input (pull-down) 6 x Low digital output (PWM) 6 x High digital output (PWM)
Sensor peripherals:	2 x 5V@50mA Supply (switchable)
Electrical interface:	1 x 30pin JAE IL-AG5-30P-D3L2 1 x 22pin JAE IL-AG5-22P-D3L2
Operating conditions:	Nominal power supply: 9V – 36V Nominal consumption: 200mA@12V Nominal sleep consumption: < 100µA
Environmental conditions:	Temperature: -40°C ... 85°C Humidity: 0% ... 95% (condensing) Enclosure protection: IP5K2
Standards:	ISO 16750, ISO 7637, CISPR 25, ISO 11452, ISO 10605, ISO 20653, RoHS, WEEE, IMDS
Mechanical:	Dimensions: 166mm x 138mm x 60mm Weight: 150g

- ¹Source code not included
- ²License from ARCCORE is required
- ³Offered as a service from QRTECH

Related QRTECH products



QRx scalable automotive platform



Freescale MPC5744P SMARC module

