Qi Ottawa Infotainment

Vehicle **Solutions**

Our **Services**

HMI DESIGN
Instrument cluster, infotainment, and physical controls. Design and build.

VEHICLE INTEGRATION
Vehicle systems integration. Lights, TSI, ECU, BMS, motor controllers and more.

PROTOTYPE DEVELOPMENT
Bucks, mock-ups, concept vehicles, demonstration units

ENGINEERING CONSULTING
Electrical, mechanical, software, and systems engineering.

Our **Products**

DragonFire Domain Control Unit

KEY FEATURES

• Hypervisor-based domain controller architecture

• Up to 2 screens with custom HMI

• Flexible vechicle I/O, physical control, and connectivity options

• On-board vehicle telemetry capture and logging

• Mobile device screen mirroring

CONNECTIVITY

• 2 CAN FD Channels

• Bluetooth 5

• 802.11ac Wi-Fi

• 8x Analog Camera Interface

• Multi-channel audio

SUPPORTED UI MIDDLEWARE

• Qt for Embedded

• Crank Storyboard

• Unity

OPTIONS

• Radio Entertainment Module

• LTE Telecommunications Unit

PERFORMANCE

• 4x Cortex-A53 @ 1.6 GHz

• 1x Cortex-M7 @ 800 MHz

• GPU @ up to 16 GFLOPS

• NPU @ 2.3 TOPS

• VPU Enc/Dec @ 1080p60

ROADMAP

• Expanded HMI middleware

• ISO 21434 compliance

• On-board voice control

• Android Auto, Apple CarPlay capable

• Automotive Ethernet

SPECS

• 50W Power (dual screen w domain controller)

• Weight 10lbs (dual), Environmental -40 to +55/85C, IP54 rated
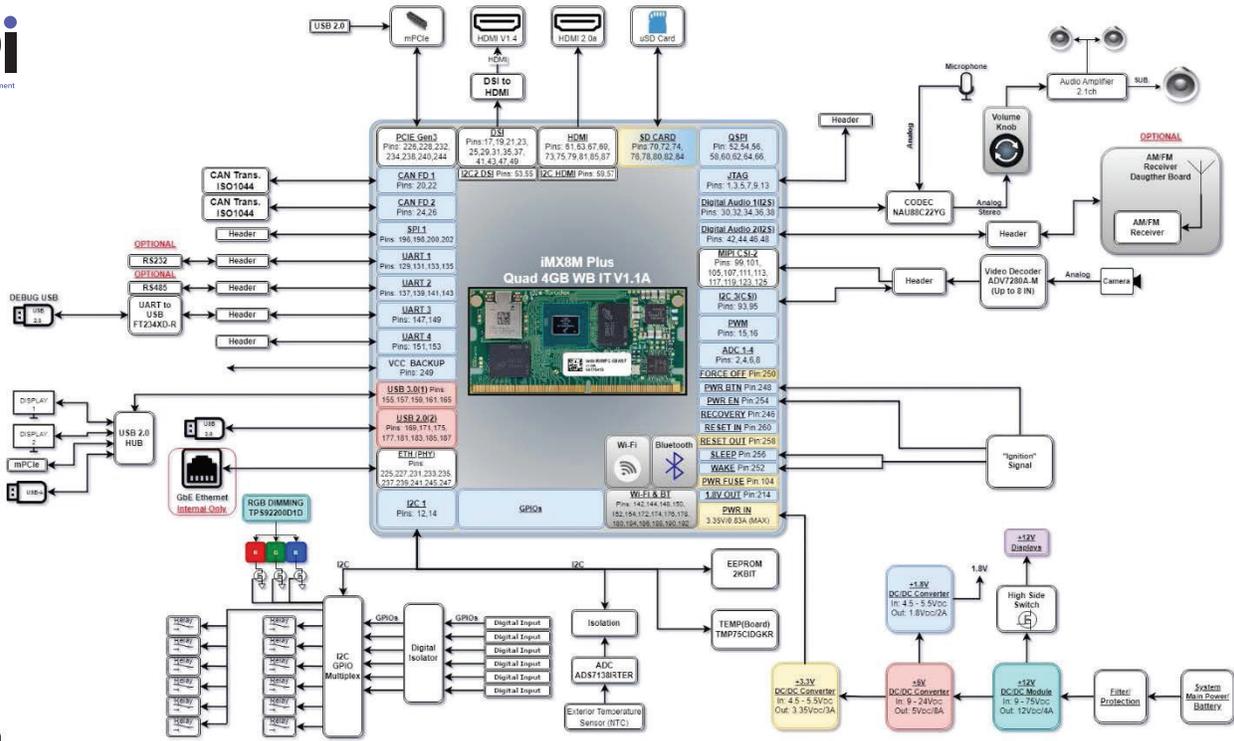
DragonFire DCU

CONNECTIVITY SUMMARY

CAN Bus

• 2x Flexible Data Rate CAN

• TeleCANesis middleware provides high-level protocol support (J1939, NMEA 2000, ISOBUS, etc.)

Digital I/Os

• 12x Digital Outputs (for relay control)

• 6x Digital Inputs

Network

• 1x Gigabit Ethernet

• 802.11ac WiFi Ethernet

• 1x Bluetooth 5.0 Radio

• Optional LTE/GPS Radio (via mPCIe)

Display*

• 2x Displays via HDMI

• USB touch controller input

Audio

• Analog Audio Output and Mic Input

• Optional AM/FM Radio

Camera

• Up to 8 analog cameras

Storage

• 32GB Internal Flash

• Micro SD card for additional storage
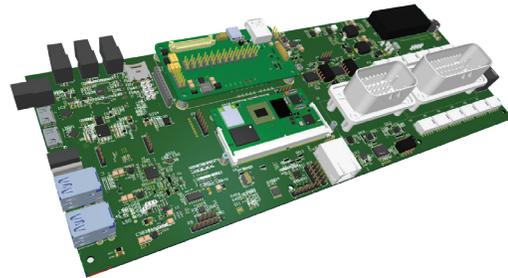
*Display and touch controller re-configuration options available depending on requirements

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