

CAN Newsletter Online

WITH CAN INTERFACES

CAN ECUs for touchscreens and panels

Rafi uses its own ECUs (electronic control unit) with CAN interfaces in customer-specific touchscreens and control panels. This has allowed to realize a number of projects for industry, agricultural and construction machinery, as well as medical technology.



CAN-based ECU from Rafi for customer-specific operating solutions (Source: Rafi)

Rafi develops and produces the ECUs and touchscreens including sensors in-house, enabling it to ensure continuous long-term availability and quality of the systems, the company explained. The company covers a range of applications with its ECU program. The control unit in the ECO-ECU series with ARM Cortex-A5 or M3M4 processor was developed for cost-sensitive operating and display tasks, with maximal 800 pixels x 600 pixels resolution. This series provides up to two CAN interfaces.

Control units in the Balance-ECU model range with a single ARM Cortex-A9 processor cater for higher operating requirements and resolutions of up to 1920 pixels x 1080 pixels. The Power-ECUs with ARM Cortex-A9 in Dual or Quad design are used for touch user interfaces with animated graphics and resolutions of up to 1920 pixels x 1200 pixels. Both series' also provide up to two CAN interfaces.

The latest series of embedded control units, the Ultimate-ECU, is designed for touchscreen applications with high-quality 3D visualization, multi-touch inputs, and full-HD screen resolutions on up to 24-inch display diagonals. Its centerpiece is an ARM Cortex-A35, i.MX8QuadXPlus processor from NXP with Yocto-based embedded Linux core and a clock frequency of 900 MHz. As regular options, the series offers three CAN interfaces, two Gigabit-Ethernet interfaces, as well as a USB 3.0 interface. The ECU generation has already been proven itself as a central computer for mobile processing machines in several projects.

[CW](#)