



FALCON

MID LEVEL CONTROLLER

The JCA Falcon controller is a general-purpose controller intended for control and monitoring functions in a wide variety of mobile applications. It is customized with application software to meet the needs of each specific application. The communication interfaces include two CAN buses, USB, and optional Bluetooth or Wi-Fi. The CAN buses can be used for communicating on J1939, ISOBUS (ISO11783), or other CAN networks.

THE CONTROLLER CAN BE USED TO:

- Control many type of loads and actuators (*hydraulic valves [proportional and on/off], lights, motors, etc.*)
- Monitor all types of sensors (*speed, position, temperature, pressure, etc.*)
- Perform complex sequenced or control algorithms
- Communicate with other CAN-enabled devices (*displays, switches, engine/transmission control units*)
- Implement wireless control and/or monitoring functions over Bluetooth or Wi-Fi for interface with smartphones, fixed function remote controls, or a wireless network.

ISOBUS IMPLEMENT CONTROLLER FUNCTIONALITY:

The controller can also serve as an ISOBUS compatible Implement Controller in agricultural applications to control implements with the use of an ISOBUS compatible Virtual Terminal. In many cases, the controller uses existing terminals and joysticks in tractor or combine cabs and eliminates the need for additional operator controls.



Enabling Innovators

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A SUMMARY OF THE JCA FALCON CONTROLLER CAPABILITIES ARE:

- Environmentally sealed (IP66),
-40°C to +85°C operating temperatures
- Designed for 12V and 24V systems
(9V to 32V operation)
- Two CAN buses
- USB device for interfacing with PC configuration and diagnostic tools
- Bluetooth wireless capability (optional)
- Wi-Fi wireless capability (optional)
- Up to 30 Inputs
 - 8 analog/digital inputs
 - 8 frequency/analog/digital inputs
- 1 wake-up input (ignition)
- 13 analog/digital inputs shared with output pins (if output is not used)
- Up to 13 Outputs
(Total combined output current limited to 20 Amps)
 - 4 high side outputs with PWM capability and current sense feedback (7 Amps max)
 - 6 high side outputs with PWM capability and current sense feedback (3 Amps max)
 - 3 low side outputs with PWM capability and current sense feedback (2 Amps max)
- 5V sensor reference voltage output



Electronics
Integration
Center

A Division of
JCA Industries Inc.

ph: (204) 415-1104

email: info@jcaelectronics.ca

website: www.jcaelectronics.ca

LET US OUTLINE YOUR SYSTEM

Let's discuss your electronic system needs. Our experts can help you arrive at a detailed solution that fits your particular application.

Contact us today for your immediate system assessment.

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