



RCM80

Raptor Control Module

P/N: RCM-5743R-080-2005



The RCM80 is a general-purpose control module with 4 CAN buses, 1 LIN bus, and configurable discrete inputs and outputs including analog inputs, digital inputs, RTD inputs, a wake input, high-side driver outputs, low-side driver outputs, analog outputs, and an EST driver output.

The RCM80 is one of the Raptor™ rugged production controllers that use a software development process based upon MATLAB/Simulink and Raptor-Dev which significantly speeds up algorithm development by using automatic integration and code generation. In addition, developers can quickly test application software using simulation and automated testing.

For more details, visit <https://neweagle.net/raptor/>
Or contact our Sales Team at sales@neweagle.net

■ Programming

- MATLAB Simulink with Raptor

■ Processor

- NXP MPC5743R
- 200 MHz

■ Memory

- 2MB App Flash
- 16KB EEPROM
- 128KB Internal RAM

■ 36 Inputs

- 21 Analog Inputs
- 9 Digital/Frequency Inputs
- 1 Wake Input
- 5 RTD Inputs (2-Wire)

■ 19 Outputs

- 12 Low Side Drivers (PWM)
- 4 High Side Drivers (PWM)
- 1 EST Drivers (PWM)
- 2 Analog Outputs

■ 8-32 V Operating Voltage

■ Communication

- 4 CAN 2.0B
- 1 LIN

■ Environmental

- -40°C to 105°C Operating Temp
- IP6k7 Compliant

■ Compiler

- S32 Design Studio for Power Architecture v2.1
(Free download from NXP)

■ Aluminum Construction

■ Weight

- 0.8lb (0.4kg)

2. Block Diagram

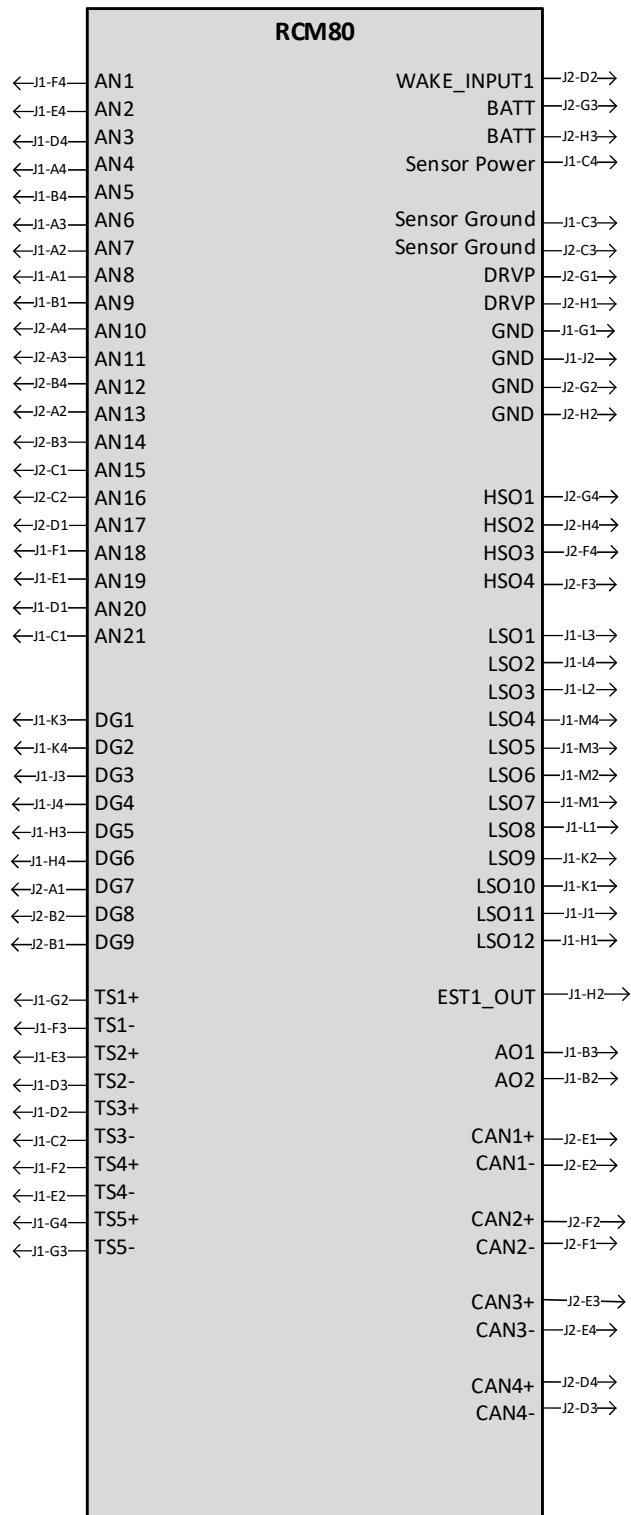


Figure 1: RCM-5743R-080-2005 Block Diagram

7. Dimensions (mm)

