



MotoHawk Control Solutions

GCM-0S12-024-0401-F

General Control Module

(Part No. 1751-6338)

Description

Presenting the GCM-0S12-024-0401-F, the MicroCHI Control Hardware Interface from Woodward's MotoHawk Control Solutions product line. These rugged, embedded controllers are capable of operating in harsh automotive, marine, and off-highway applications. Hundreds of successful industrial applications prove the capability of these modules. Based on a proven microprocessor, the MicroCHI Control Hardware Interface is capable of delivering complex control strategies. The CAN 2.0B datalink ensures interoperability with other system components.

The GCM-0S12-024-0401-F is part of the ControlCore® family of embedded control systems. MotoHawk Control Solutions' ControlCore operating system, MotoHawk® code-generation product, and MotoHawk's suite of development tools enable rapid development of complex control systems.

IMPORTANT

Woodward does not warranty this ECM based on information supplied in this datasheet, but only with an express and specific production supply agreement based on customer's operating mode. Information in this datasheet is subject to change without prior notice. Please contact MotoHawk Control Solutions sales for more information.

- **Microprocessor:**
Motorola
MC9S12DT128,
24 MHz
- **Memory:**
(MC9S12DT128BMP
V) 128K Flash, 8K
RAM, 2K EEPROM
- **Operating Voltage:**
8–16 Vdc
- **Operating
Temperature:**
–40 to +105 °C
- **Sealed Connectors:**
Operable to 10 ft (3m)
submerged
- **Inputs:**
6 Analog
4 Discrete
- **Outputs:**
5x 1.5 A Low Side
PWM
- **Datalinks:**
2 CAN 2.0B
Channels

4.1 Block Diagram

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13	BATT	(1.5A) LSO1	12
2	KEY (600 GND)	(1.5A) LSO2	24
18	XDRP (5V)	(1.5A) LSO3	23
1	XDRG	(1.5A) LSO4	22
		(1.5A) LSO5	21
5	AN1 (220K GND)		
17	AN2 (220K GND)		
4	AN3 (220K GND)		
16	AN4 (220K GND)		
3	AN5 (220K GND)		
15	AN6 (220K GND)		
11	DG1 (1K2 GND)		
10	DG2 (1K2 GND)		
20	DG3 (1K2 GND)		
19	DG4 (1K2 GND)		
9	CAN1+		
8	CAN1-		
7	CAN2+		
6	CAN2-		
14	GND		