

SUSMIC 10/12 Mobile Microcomputer Family

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DESCRIPTION

The SAUER-SUNDSTRAND Mobile Microcomputer Family SUSMIC 10/12 is a digital electronic series, which is designed for open loop and closed loop mobile off-highway system applications.

Modern day controls in mobile applications driving rotary and linear actuators (hydrostatic transmissions, hydraulic cylinders etc.) increasingly need more flexible and intelligent electronics. The rugged design of the SUSMIC 10/12 digital electronic series provides the best option for this. The design provides the required performance for a mobile environment and the high performance, 16 bit mirocontroller provides the capability for future expansion.

It is possible to load different software programs via the RS232 interface for the whole series without any hardware changes. This feature makes it possible for a non-electronically oriented user to use standard



hardware for different applications if the appropriate software is selected.

The SUSMIC 10/12 software and hardware have been developed so that communication between the controller and specially developed tools can be used to optimize the performance during production. This facility simplifies start-up, field service and stock.

FEATURES

- · Mobile off-highway microcomputer
- 16 bit microcontroller
- 5V Flash Memory
- Supply voltage $12V_{DC}$ or $24V_{DC}$ (one unit)

TECHNICAL DATA

SUPPLY VOLTAGE $12V_{DC}$ or $24V_{DC}$

SWITCHING INPUTS 4 (low side $0V_{DC}$ or high side switching $> 8V_{DC} \dots < 30V_{DC}$)

ANALOG INPUTS 4 ($0V_{DC}$ to $5V_{DC}$)

FREQUENCY INPUTS 2 (2- or 3-wire PPU)

PROPORTIONAL OUTPUTS 1 bidirectional current source (160mA into 30ý) can be divided into 2 unidirectional current sources (100mA into 30ý)

by software

SENSOR VOLTAGE $5V_{DC}$ up to 300mA

RS232 interface

- CAN Bus network (optional)
- · Software download without hardware changes
- · Easy service

SWITCHING OUTPUTS

- 2 (2A high side switching), can be configured to drive engine actuator
- LED OUTPUTS
 - 2 (under software control)
 - 2 (for internal voltages)
 - all visible from outside the enclosure

COMMUNICATION RS232 fully buffered

- **CAN** Interface optional with add-on board
- CONTROLLER Intel 80196 family

MEMORY Flash Memory: 128kByte RAM:

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8kByte

ENVIRONMENTAL SPECIFICATION

Valid for the electronic voard in an enclosure. Specification for series release electronics. Proven according the following standards:



CONNECTION SUSMIC 10/12

