

# Counter/Frequency Input and Digital Output Module

## Model I-7080

The I-7080 is a cost-effective, compact and robust 2-channel counter/frequency input and 2-channel digital output module. Each module is addressable allowing up to 256 units to be linked together via a two-wire RS-485 connection with a baud rate up to 115.2 kbps.

The I-7080 provides 3000V isolation between the module and the RS-485 communications network. The module has a built-in dual watchdog timer: one monitors the module's firmware while the other watches the traffic to the host computer.

Programming the I-7080 module is very easy. The host controller simply sends commands to each unit consisting of ASCII characters. The I-7080 module comes with DIN-Rail and wall mounting adapter hardware. This makes the product easily mountable anywhere.



### Counter/Frequency Input

Channels:	2 independent 32 bit counters
Input Frequency:	100 KHz max.
Input Mode:	Isolated or non-isolated
Isolated Input Levels:	Logic level 0: +1 V max. Logic level 1: +3.5 ~ 30 V
Isolation Voltage:	3750 Vrms
Non-Isolation Input Level:	Programmable threshold voltage Logic level 0: 0 to +5 V Logic level 1: 0 to +5 V
Maximum Count:	32-bit (4,294,967,295)
Programmable Digital Noise Filter:	2 $\mu$ s to 65 ms
Alarming Mode Selectable:	1. Two step high alarm comparator on counter 1. 2. High alarm comparator on counter 0 and counter 1.
Frequency Measurement:	Range: 1 Hz to 100 KHz Programmable built-in gate time: 1.0/0.1 sec.

### Digital Output

Channels:	2
Output:	Open collector to 30 V, 30 mA max. load
Power Dissipation:	300mW

### Specifications

Connections:	Terminal blocks (accepts 16-22 AWG wires)
Operating Temperature:	-13 to 167°F (-25 to 75°C)
Storage Temperature:	-40 to 176°F (-40 to 80°C)
Voltage Input:	10 - 30 VDC
Power Consumption:	2 W
Dimensions:	4.8 x 2.8 x 1.3 in (12.3 x 7.2 x 3.3 cm)

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**B & B Electronics Mfg. Co.**

707 Dayton Road - P.O. Box 1040 - Ottawa, IL 61350 USA

Phone: (815) 433-5100 - Fax: (815) 433-5105

Home Page: [www.bb-elec.com](http://www.bb-elec.com)

Sales e-mail: [orders@bb-elec.com](mailto:orders@bb-elec.com) - Fax: (815) 433-5109

Technical Support e-mail: [support@bb-elec.com](mailto:support@bb-elec.com) - Fax: (815) 433-5104

**B & B Electronics Ltd**

Westlink Commercial Park - Oranmore, Co. Galway - Ireland

Phone: +353 91 792444 - Fax: +353 91 792445

Home Page: [www.bb-europe.com](http://www.bb-europe.com)

Sales e-mail: [orders@bb-europe.com](mailto:orders@bb-europe.com)

Technical Support e-mail: [support@bb-europe.com](mailto:support@bb-europe.com)