

- ▶ Full Featured PLC on a Chip[®] Based
- ▶ Real Time Clock Optional
- ▶ Programs with EZ Ladder[®] Software
- ▶ No Low Level Programming Required
- ▶ Easy to Apply
- ▶ ASCII Communications
- ▶ J1939 Connectivity Available
- ▶ Modbus Slave Available
- ▶ PWM Outputs Available
- ▶ CAN Ports Available



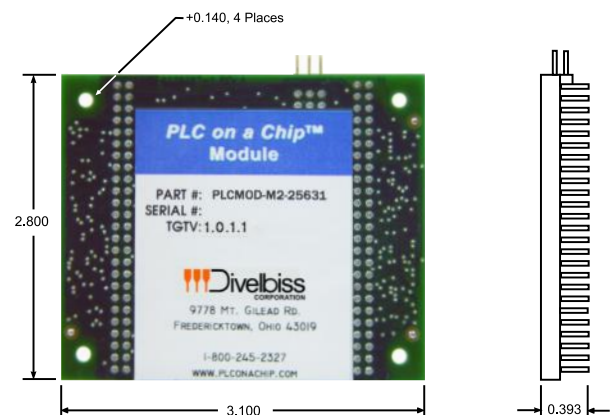
PLC on a Chip Modules are designed as an easy-to-apply solution to bread-boarding, proof of concept, and lower volume production runs. Each module has the high speed peripheral circuitry required for proper usage of the patented* PLC on a Chip IC. The module, a mother board, power supply and I/O comprise the Development Kits which are available for each model.

Divelbiss Development Kits include a library of pre-designed, drop-in circuitry for I/O, power supply, communications and other supporting components. The library provides all information required to implement PLC on a Chip and the peripheral circuitry, including PCB layout requirements, standard part numbers, and more.

Divelbiss also offers a cost-effective RAPID Design Program using PLC on a Chip for instances when PCB design project time is not available.

Advantages of a PLC on a Chip Solution:

- ▶ Add Intelligence to an Existing Product
- ▶ Protection of Intellectual Property
- ▶ Ideal for Lower Production Items
- ▶ Provides Quick to Market Solutions
- ▶ Full Factory Support
- ▶ Increased Product Value
- ▶ Increased Replacement Parts Sales
- ▶ Pre-designed Circuits Library
- ▶ No Low Level Programming
- ▶ RAPID Design Program Available



*Patent 7,299,099

SPECIFICATIONS:

System Capacity	PLCMOD-M2-128XX	PLCMOD-M2-256XX
Flash Memory	128K Bytes	256K Bytes
EEPROM Memory	2K Bytes	4K Bytes
RAM Memory	8K Bytes	12K Bytes
Power Supply	5VDC	5VDC
Real Time Clock	Optional	Optional
Package Type	Printed Circuit Board	Printed Circuit Board
Size	3.2" x 2.7" x 0.6"	3.2" x 2.7" x 0.6"
Temperature Range	-40 to 85 Degrees C	-40 to 85 Degrees C
Communications		
Built In Ports	1 TTL Programming Port	1 TTL Programming Port 1 TTL Multipurpose Port
ASCII Communications	Yes	Yes
Baud Rate	9600 - 57600 Bps	9600 - 57600 Bps (115200 Modbus)
CAN Ports	No	Up to 3 (1 to include J1939 support)
Input / Output		
SPI Serial Interface Port	2, TTL Level	2, TTL Level
A/D Inputs	8 Channels, 0-5VDC Input, 10 Bit	8 Channels, 0-5VDC Input, 10 Bit
PWM Outputs	Up to 8 Channels, 8 Bit	Up to 8 Channels, 8 Bit
Digital I/O	33 Inputs, 33 Outputs Direct or 33 Inputs, 20 Outputs + 256 Ext. Pts	33 Inputs, 33 Outputs Direct or 33 Inputs, 20 Outputs + 256 Ext. Pts
Programming		
Program Language	Ladder Diagram and Function Blocks using EZ LADDER [®]	Ladder Diagram and Function Blocks using EZ LADDER [®]
Function Blocks	Yes	Yes
Scan Time	Variable, Based on Program Size	Variable, Based on Program Size
Error Checking	Yes, during program compilation	Yes, during program compilation
Real Time Monitoring	Yes	Yes
Text Notes	Yes	Yes
# of Instruction/Blocks	>60	>60
Types of Instructions	Contacts Coils Counters Timers Control Relays Math Functions Bit Manipulation Drum Sequencers Floating Point / boolean / integer Closed Loop Control Functions Communications Functions	Contacts Coils Counters Timers Control Relays Math Functions Bit Manipulation Drum Sequencers Floating Point / boolean / integer Closed Loop Control Functions Communications Functions
Automatic Revision Ctrl	Yes	Yes
Windows Based	Yes	Yes

NOTE: Specifications are subject to change without notice.

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