



Now you can REDUCE TIME TO MARKET by developing your controller hardware and application software in parallel by using the patented\* Divelbiss PLC on a Chip® Technology Development Package. The PLC on a Chip Development Package provides the complete library of documentation required to apply PLC on Chip at the module and integrated circuit level as well as a development board, I/O modules, and the EZ Ladder Tool Kit software.

This package allows you to develop your application program using EZ Ladder while the PLC on a Chip hardware design is in process; allowing completion of the project in shorter time. Once the hardware is complete, simply download and run your application without any re-programming.

The **PLCDK-01** PLC on a Chip® Development Package contains the following:

Qty	Part Number	Description
1	PLCMOD-M2-256	PLC on a Chip® Module with 256K Flash, 2 Serial Ports, 2 Can Ports
1	PLCDKMB	PLC on a Chip Development Kit Main Board
4	BM-0470048-2AC	110VAC Input Module, Optically Isolated with Status LED Indicator
4	BM-0470048-2DC	12-24VDC Input Module, Optically Isolated with Status LED Indicator
4	BM-0470048-4	110VAC Output Module, Optically Isolated with Status LED Indicator
4	BM-0470048-3	12-24VDC Output Module, Optically Isolated with Status LED Indicator
2	BM-0470048-5	Relay Output Module, 110VAC @ 2A with Status LED Indicator
1	PLCDKCD-01	Development CD with Design Documentation
1	EZLDCD-01	EZ Ladder Software CD
1	PLCKDPS	Power Supply for PLCDKMB Mother Board

\*Patent 7,299,099

Additional I/O Modules may be purchased separately.

# Development Kit - SPECIFICATIONS

## PLC on a Chip® Module

PLCMOD-M2-256	
<b>System Capacity</b>	
Flash Memory	256K Bytes
EEPROM Memory	4K Bytes
RAM Memory	12K Bytes
Power Supply	5VDC
Real Time Clock	Yes
Package Type	PCB
Size	3.2" x 2.7" x .6"
Temperature Range	-40 to 85 Degrees C
<b>Communications</b>	
Built In Ports	1 TTL Programming Port 1 TTL Multipurpose Port
ASCII Communications	Yes
Baud Rate	150 - 57600 Bps
CAN Ports	Up to 2
<b>Input / Output</b>	
SPI Serial Interface Port	2, TTL Level
I <sup>2</sup> C Bus	1, TTL Level
A/D Inputs	8 Channels, 0-5VDC, 10 Bit
PWM Outputs	8 Bit - Up to 8 Channels or 16 Bit - Up to 4 Channels,
Digital I/O	33 Inputs, 33 Outputs Direct or 33 Inputs, 15 Outputs + 256 Ext. Pts

## Development Kit Main Board

PLCDKMB	
Input Power	10VAC or 12 VDC
# Input Module Slots	12
# Output Module Slots	8
Watchdog LED	Yes
Analog Inputs	8 Channels, 0-20mADC, Single Ended
Serial Port 1	RS232,
Serial Port 2	RS232, RS422 or RS485
CAN Ports	2
Counter Inputs	2
Expandable I/O	Yes, using ICM-HDIO Series
Size	9.8" x 7.4" x 1.7" with I/O Modules
Mounting	Stand-off

## Input I/O Modules

BM-0470048-2AC	
110 VAC Input Module	
Input Voltage	110 VAC
Status LED	Yes
Optically Isolated	Yes
Mounting	Plug into Main Board

BM-0470048-2DC	
12-24 VDC Input Module	
Input Voltage	12-24 VDC
Status LED	Yes
Optically Isolated	Yes
Mounting	Plug into Main Board

## Output I/O Modules

BM-0470048-4	
110 VAC Output Module	
Output Voltage	90-130 VAC
Max Current	1 Amp
Status LED	Yes
Optically Isolated	Yes
Mounting	Plug-in

BM-0470048-3	
12-24 VDC Output Module	
Output Voltage	12-24 VDC
Max Current	1 Amp
Status LED	Yes
Optically Isolated	Yes
Mounting	Plug-in

BM-0470048-5	
Relay Output Module	
Output Rating	110 VAC @ 2 Amps 30 VDC @ 5 Amps
Status LED	Yes
Mounting	Plug-in

**NOTE:** Specifications are subject to change without notice.

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