



HOLCON®



W2-61499-K1—\$1500.00
W2-61499-K2—\$2000.00

W2-61499-K1 and W2-61499-K2 are complete development and demonstration kits for compliant IEC61499 research and development.

Background: IEC61499 is a new international standard for highly distributed function block controls. It provides an event-driven mechanism for proper sequencing over multiple device nodes.

The W2 series is derivative controller from Western Reserve Controls WRC1 SmartMux®-Plus DeviceNet I/O Block and embedded controller. It supports realtime, embedded JAVA, CAN, Ethernet, Discrete I/O, analog I/O and RS232. It uses the IMSYS SNAP application platform and real-time operating system. <http://www.imsystech.com/products/modules.htm>

Function Block Development Kit (FBDK) and Function Block Run Time (FBRT) are implementation tools of the IEC61499 standard licensed from Rockwell Automation.

Details and support are available at <http://www.imsystech.com/>

W2-61499-K1 provides:

- Real-Time embedded Java Engine using the IMSYS SNAP processor. The J2ME-CLDC runtime environment, certified by Sun Microsystems, speeds up and simplifies your software development.
- Real-time operating system
- Real-time clock
- FBRT installed on module
- FBDK on CD for application development
- 24 points of discrete I/O consisting of 12 inputs and 12 outputs
- 8 points of analog I/O consisting of 4 inputs and 4 outputs
- 24 Vdc operation
- Ethernet interface with TCP/IP, UDP, and FTP
- CAN interface
- RS232 interface
- All necessary cabling and connectors

W2-61499-K2

This powerful development tool is needed if you intend to develop native functions in C or assembler for the SNAP platform. The PC based Integrated Development Environment, Imsys Developer, handles a simultaneous mix of Java, C and assembler code.

W2-61499-K2 consists of the W2-61499-K1 plus a licensed IMSYS SNAP Integrated Development Environment (IDE). Details and support for the IMSYS SNAP Module and Visual Integrated Development Environment are available at <http://www.imsystech.com/products/devtools.htm>

Specifications and technical support for the W2, I/O, and associated Service Interfaces is available at <http://www.wrcakron.com/> and click on "Support."



WRC is a Rockwell Automation Encompass Partner for Gateway, Bus Extender and signal conditioning products.



Microprocessor:	Specialized for real-time, embedded JAVA
Memory	2 Meg Flash, 8 Meg DRAM
Control Environment	IEC61499 compliant FBRT licensed from Rockwell Automation
Real-Time Clock	Real-Time Clock and Calendar
Operating System	MOOSE (Multitasking, Object-Oriented, Operating System)
Development tools	W2-FBDK (Function Block Development Kit) licensed from Rockwell Automation, SNAP firmware (IMSYS Integrated Development Environment - optional)
Communications:	Stand-Alone or Networked
Ethernet	TCP/IP, UDP, FTP
CAN	SJA1000 Interface included
RS232	Up to 115.2 Kbaud
I/O:	Western Reserve Controls 1781-Slim Series
Discrete I/O	24 points total; 12 input, 12 outputs—preconfigured
	Individually optically isolated
	Outputs—10 to 60 Vdc, 3 amp continuous, model number 1781-OB5S
	Inputs—3 to 32 Vdc, model number 1781-IB5S
Mounting	External panel mounted, model number 1781-A24H2
	Removable terminal blocks
	Selectable 0-10 Vdc analog position or 2 amp H-bridge drive
Analog I/O	8 points total; 4 inputs, 4 outputs
	Inputs and outputs, 0-10 Vdc, non-isolated, 12 bit resolution
Mounting	DIN-Mounted Field Termination Panel; model number 1782-FBK-26
Cabling	Discrete I/O to W2, provided, 2 foot long; Model Number 1781-C2HD
	Analog I/O to W2, provided, 2 foot long; Model Number 1781-C72HD
	Micro, Field Terminated 5-pin female connector provided; CAN and power
	Ethernet connection via RJ socket
	RS232 connection via RJ11 socket
Power requirements	24 Vdc, 3 amps - NOT PROVIDED, W2 isolated from external power
W2 mounting/dimensions	DIN-Rail, metal enclosure; 152 mm L, 105 mm W, 66 mm H
Operating temperature	-20 C to +70 C

© Western Reserve Controls, 2004