



H O L O C O N®

W2-FBC Holocon® Controllers are stand-alone or networked embedded computers that can run Real-Time, embedded JAVA and/or IEC61499-compliant Function Block, event-driven, control software.

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 a derivative controller from Western Reserve Controls WRC1 SmartMux®-Plus DeviceNet I/O Block and embedded controller. It supports real-time function block control, embedded JAVA, CAN, Ethernet, Discrete I/O, analog I/O and RS232.

Programming the W2 controller is via the Function Block Development Kit (FBDK), implementation tools of the IEC61499 standard or via user-written JAVA code.

The W2 Series consists of the central processor, internal power supply, CAN communications, Ethernet communications, and RS232 communications mounted in a brushed aluminum extrusion. Three (3) card slots are available to be populated from a selection of I/O cards. A complete and up-to-date listing of available I/O cards can be found at www.wrcakron.com/holocon.html In addition to conventional Process I/O, WRC extends the communications options with a quad communications card.

HOLOCON Quad Communications Option Card "K"

The K card is a 4-port communications gateway processor between a serial-capable device over an RS232 or RS485 interface and a CAN or Ethernet network.

Device Type: Communications Adapter

Serial port: Baud rate: 1200, 2400, 4800, 9600, 19.2k, 38.4k, 57.6k, 115.2k baud (software selectable)

Parity: Odd/even/none (software selectable)

Data bits: 7 or 8 (software selectable)

Serial port connection: DB9-M (male, 9-pin D-sub) Amp p/n 745182-2 or equivalent

Status Indicators: Transmit Active: green LED

Receive Active: green LED

Network Isolation: 500V

Ordering Information:

Specify W2-FBC-123 where 123 represents your selection of 3 I/O cards from the list above. For example, W2-FBC-ake would have:

- a - no I/O card in slot 1
- k - 4-port communications card in slot 2
- e - 8 point AI card in slot 3

W2-FBC features include:

- Real-Time embedded Java Engine.
- Real-time operating system
- Real-time clock, battery backed
- FBRT installed on module
- FBDK on CD for application development
- 24 Vdc operation
- Ethernet interface with TCP/IP, UDP, and FTP
- CAN interface
- RS232 interface



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

Applications:

- Ethernet to 4-channels of RS232 Gateway
- Intelligent, programmable Gateway to provide protocol conversion
- By adding one of the W2 HOLOCON protocol options, DeviceNet, ProfiNet, or EtherNetIP gateway to 4 ASCII channels to weigh scales or bar code scanners
- Web Server Gateway to 4 ASCII ports