



W2 SmartMux is a family of fixed function, networked I/O adapters derived from the popular WRC1 SmartMux-Plus™ family.

Supported physical networks are: Ethernet, CAN and RS232.

Different protocols are available to assist OEMs in meeting user preferences.

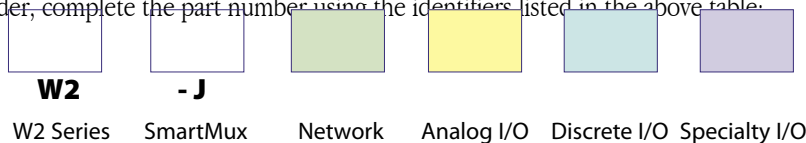
Enclosure is extruded aluminum providing strength and electrical shielding. I/O Connectors are D-Sub for integrity and shielding. See [Catalog Addendum Volume 25 \(now Ziggy Overview pp 1-3\)](#) for field termination options. Flange panel mounting is standard. DIN-Rail mounting is available as an option— specify W2-DIN-KIT.

Three internal card positions are provided allowing the user selection of the optimal I/O mix for their application. One card position is dedicated to discrete I/O. Another is dedicated to analog I/O. And one is dedicated to future specialty I/O and expansion.

Specifications are found on page 12.

Network Selection	
Part # Identifier	Network
D	DeviceNet™
E	Ethernet TCP/IP with HTML Web Server
M - preliminary	Modbus RTU/ASCII - RS232
C - preliminary	Ethernet/IP with CIP protocol
T - preliminary	Modbus TCP Ethernet
O - preliminary	CANopen
I/O Selection	
Part # Identifier	I/O mix
AI	32 Analog Inputs
ATC	24 ThermoCouple inputs
AIO	32 Analog points - of which 8 can be outputs
blank square	No analog I/O
24	24 external Discrete I/O
48	48 external Discrete I/O
B	16 internal Discrete Inputs
C	16 internal Discrete Outputs
D	16 internal Discrete Inputs and 16 Outputs
blank square	No Discrete I/O
blank square	No Specialty I/O

To order, complete the part number using the identifiers listed in the above table.



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



I/O:	Select up to 3 factory installed I/O cards
Internal Discrete I/O	2500 V isolation between system and I/O
	Inputs—24 Vdc nominal, sinking or sourcing
	Outputs—24 Vdc, .25 amp, internal current limiting, sourcing
	25-pin D-sub connectors
	Specify W2-FTB25 for Field Termination Block, DIN-Rail mounted
Analog I/O	Specify W2-CXDD for interconnecting cable where X = length in feet
	Inputs and outputs, 0-10 Vdc, single-ended, non-isolated, 12 bit resolution
	25-pin D-sub connectors
	Specify W2-FTB25 for Field Termination Block, DIN-Rail mounted
	Specify W2-CXDD for interconnecting cable where X = length in feet
	Compatible with 1781-7B and W7 external analog signal conditioners
	See WRC Catalog for 1781-7B and W7 mounting board options
External Discrete I/O	Specify 1781-7CX cable, where X = length in feet
	Industry-standard 50-pin D-Sub connector
	Factory default - all points set to outputs
	Each point can be configured as either input or output
	Opto-coupled I/O modules are purchased separately
	WRC's 1781 series or WRC4 series are fully compatible
	Isolation—4 Kv
Thermocouple Inputs	Specify 1781-CXHD where X = length in feet
	User selectable T/C Type J,K,S,T or C
	Thermocouples must be the same type and must be isolated
	25-pin D-sub connectors
	External cold-junction compensation using termination panel W2-TCTERM
	Specify W2-CXDD for interconnecting cable where X = length in feet
	12-bit resolution
	Linearization function block provided in W2-FBDK