drive.web Datasheet

Model: dw254-DM-XAPD

smarty7 Universal Automation Controller with Precision Analog I/O for P2 Closed Loop Vector Drives

I/O & Connectivity

Analog Inputs	8 (±11V, 16 bits or 5/24 VDC digital)
Analog Outputs	8 (±10.5VDC, 10mA)
Digital Inputs	8 (24VDC)
Digital Outputs	8 (24VDC - Input or Output)
XIO Inputs	4 Channels Precision Analog I/O (0.2mV/V to 6.0mV/V, 10mV to 2048mV, 100/1kΩ for loadcell, thermocouple, potentiometer & more)
Encoder Inputs	2 (Quadrature A/B or ABZ, 5/24V, 1 Mhz)
Frequency Inputs	6 (24/5 VDC digital 100kHz input or 500kHz, 20mA sink out)
Timing Outputs	1 (30 VDC 500kHz, 20mA sink out)
USB	USB-C (system-wide access)
Ethernet	100BASE-TX with drive.web peer-to-peer
Terminals	80 plug-in, screw type
Communication Protocols	ModbusRTU, ModbusTCP/IP, EIP/PCCC



Software Features

Modbus TCP/IP (04)	Slave/Server
Process Control (05)	Recommended for most applications
Winder Control (06)	Diameter Calc., Taper Tension, Torque Comp.
Math (10)	With advanced math functions
EIP/PCCC (25)	Slave/Server
savvyPanel (26)	Operator station interface
Solar (29)	Calculates sun position azimuth and zenith
Precision Motion (39)	With event, length, position, shaft-lock, indexing, motion control and more

Factory Build Specs

Sensors	Accelerometer, barometer, thermometer, hygrometer
Clock	Yes (CR2032)
Dimensions	0.82" x 3.62" x 4.73" (21mm x 92mm x 120mm)
Mount Type	DIN Edge Mount, DIN Side Mount Flex Clip (Optional)
Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 50°C
Humidity	95% max, non-condensing
Compliance	UL, CE

Bardac drives

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