

# drive.web Datasheet

Model: dw258-DM-XAPD

## smarty7 Universal Automation Controller with Precision Analog I/O for E3 Series General Purpose Drives

### I/O & Connectivity

|                         |  |
|-------------------------|--|
| Analog Inputs           | 8 ( $\pm 10V$ , 16 bits or 5/24 VDC digital)   |
| Analog Outputs          | 8 ( $\pm 10VDC$ , 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, 100/1k $\Omega$ 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"<br>(21mm x 92mm x 120mm)         |
| Mount Type            | DIN Edge Mount,<br>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   |

