

# stacks Feature Matrix

## POWER

## SIGNAL

## DIGITAL

Provide

Switch

Sense

Generate

Discrete

Comms



16-72Vin

100Mbps Ethernet & PoE

*DUT POWER SUPPLIES*  
USER ON/OFF CTRL  
& CURRENT SENSE

**+12V** x1  
38W, Programmable  
Current limit up to 3.2A

**+5V** x1  
7.5W, Programmable  
Current limit up to 1.5A

**+3.3V** x1  
5W, Programmable  
Current limit up to 1.5A

**-12V** x1  
100mA

**POWER DAC SOURCE/METER**  
0 to 10V, 1.5A x1  
3.5 digit

**NEG POWER DAC**  
-10 to 0V, 100mA x1  
12-bit

**RELAY** x2  
45V, 100mA  
Solid-state

**SOLENOID DRIVE**  
Low-side Switches x4  
35V, 350mA

**RELAY** x2  
8A, 250VAC, Fuse Detect  
SPDT, w/Current Meter

**RELAY** x2  
4A, 250VAC, Fuse Detect  
DPDT, w/Current Meter

**RELAY** x1  
1A, 250VAC, AC only  
Solid-state

**RELAY** x1  
48VDC, 750mA, DC/AC  
Solid-state

**POWER SUPPLY TELEMETRY** x1  
Core Internal Supply  
Voltages, Powers, Temps  
Currents

**ADC** x4  
12-bit ENOB, 0 to 2.5V

**DMM**  
6 digit, 14kSPS  
Multichannel  
Voltage: ±250V x6  
Current: ±500mA x1

**POWER METER VOLTAGE · CURRENT**  
3.5 digit, ±45V Common  
Mode  
Voltage: ±13.5V x2  
Current: ±1.5A x1  
Current: ±150mA x1

**CURRENT METER**  
±50A, 3.5 digit  
10kSPS x4

**±3V DAC** x2  
12-bit, -3.3 to +3.3V  
20mA

**RGB LED** x1  
User Programmable

**RGB LED** x1  
User Programmable

**Waveform Generator** x1  
16-bit, 1MSPS  
±10V or ±5V Differential

**+5V REF** x1  
0.06% Accuracy

**RGB LED** x1  
User Programmable

**DIO** x11  
3.3V CMOS  
Tolerant to ±20V, MUX'd

**PWM** x3  
1.2MHz  
+1 Complementary PWM

**CLOCKS** x2  
Programmable  
32kHz, 1.9MHz to 30MHz

**FREQUENCY COUNTER EVENT TIMER** x1  
32-bit, Max 30MHz

**DIO** x8  
5V or 3.3V CMOS  
Programmable

**ISOLATED INPUT**  
Isolation ±100V x2  
Vth = 5V, Max 32V

**ISOLATED INPUT**  
Isolation 250VAC x2  
Vth = 3.3V, Max = 250VAC

**USB** x1  
USB 2.0 Device

**CAN** x1  
1Mbps, PHY included

**I<sup>2</sup>C** x1  
400kbps, master or slave

**RS485** x1  
15Mbps Max

**UART** x1  
7.5Mbaud Max

**SPI** x1  
40Mhz, Master, 3 CS

**SD Card** x1  
Micro-SD

**USB** x1  
USB 2.0 Device

**USB** x1  
USB 2.0 Device



Tracks  
Accessory



POWER/SIGNAL

Switch

**RELAY MUX**  
32 Channel  
250V, Isolated  
Universal Routing