

PowerHub™

Power Distribution Module for Robotic Systems



Drive-By-Wire
Platform

Safety
Systems

Power
Distribution

Navigation
& Autonomy

Operator
Control Unit

- Convenient Ethernet Control and Monitoring
- Simple Web Configuration Utility
- Standalone or Rack Mounted Units
- Designed for Robotic Systems Development
- TCP Protocol Allows for Programmatic Control

Feedback

- Output status, voltage, current
- Input voltage
- Internal temperature & fan status

User Configuration

- Solid state switch on/off (per output)
- Current limit from 0 to 9 Amps (per output)
- Output voltage
- Power up defaults
- Network settings

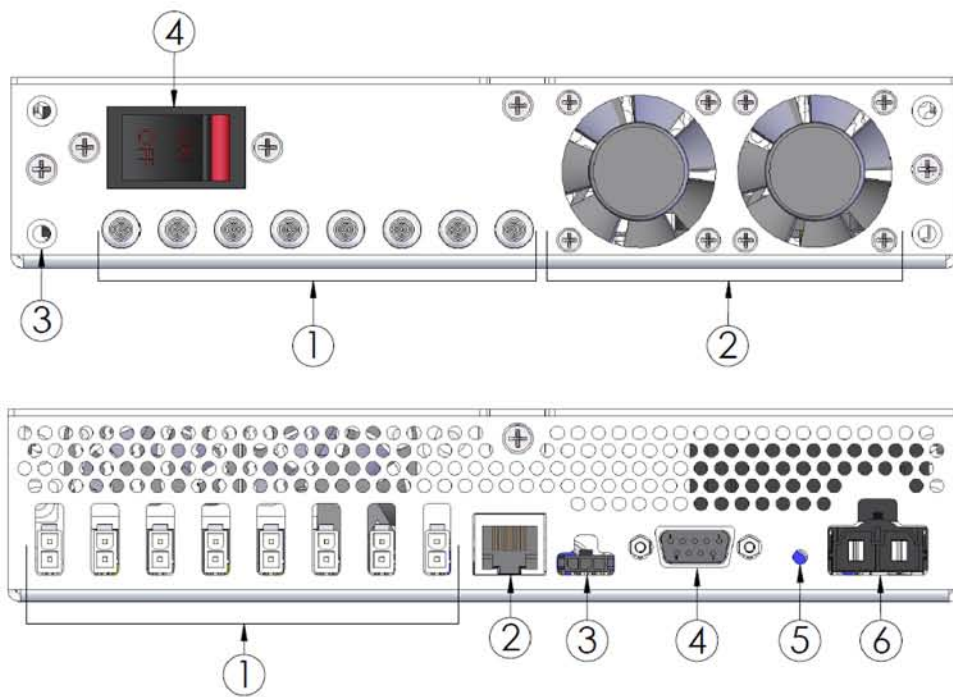


The PowerHub module provides computer controlled power distribution for applications in robotics and unmanned systems. Convenient control over Ethernet allows eight individual outputs to be switched and monitored remotely. The PowerHub is available with a 12V, 24V or 48V nominal input and a 5V, 12V or 24V nominal output.

A variety of models ensure safe, reliable power for the many sensors, computers and other devices integral to a robotic system. The PowerHub provides a complete power conditioning and distribution solution, freeing developers to focus on more complex unmanned system design tasks.

ROBOTIC BUILDING BLOCKS

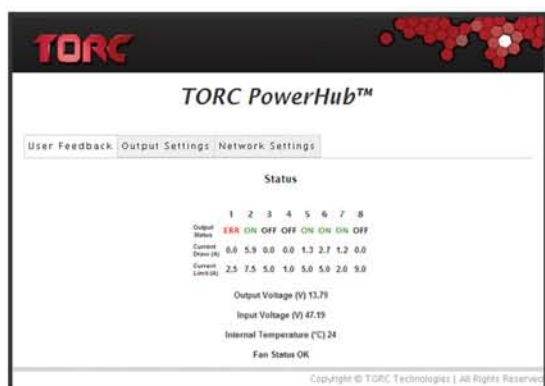
For Unmanned & Autonomous Systems



1. Output Indicator LEDs (x8)
2. Input Fans (x2)
3. 10-32 Threaded Mounting locations (x4)
4. Master ON / OFF Switch, Circuit Breaker

1. Output Connectors (x8)
2. RJ-45 Ethernet Jack
3. Remote Enable Connections
4. Serial Communications Jack
5. Reset to Factory Defaults Button
6. Input Power Connection

Web Based Configuration Utility



The PowerHub can be controlled and monitored through the web-based configuration utility. To access the utility, simply launch a web browser on a computer that is connected to the PowerHub, enter the IP address and you are ready to configure the settings.

The User Feedback tab displays the current state of each output, the measured input and output voltages, the internal temperature of the unit, and the fan status. This page is configured to automatically refresh once a second.

The Output Settings tab allows the user to control which outputs are turned on or off, what current limits are set, and the desired output voltage. Network configuration for the PowerHub can be accessed on the Network Settings tab.

Available Mounting Options



Single and double unit rack mounted PowerHub modules occupy 1U each in a standard 19" rack.