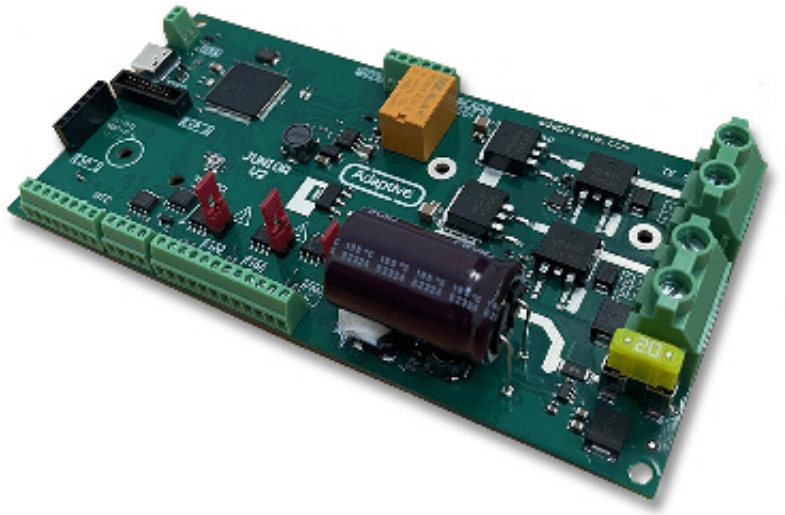
ADJ-48-450-UR-V2

ADAPTIVE® JUNIOR CONTROLLER



Part Numbers

ADJ = Adaptive Junior Controller
24 / 48 = Voltage
450 = Wattage

Connection type
U – USB connection, R – RS232 connection

Suffix
No additional number - standard
Additional number : 001 – 999 – custom option

Features

- High efficiency load driver
- 2 external thermocouple inputs
- 3 independent programmable fan outputs
- Alarm output
- USB 2.0 and RS232 communication interfaces
- 4 NTC Thermistor inputs

The Adaptive® JUNIOR is a PID controlled pulse width modulator (PWM), intended for thermoelectric cooler or heater applications that require a uni or a bidirectional drive source for accurate temperature control. The controller is capable of operating in a standalone mode, it is also supported by user-friendly PC software. There are additional quick set-up options for manual setpoint adjustment and a selectable fan voltage available.

Optional extras:
• System parameters can be monitored through an LCD.
• RS232 or RS485 isolated interface.

PC Software

Download the user-friendly PC software from:
www.adaptivete.com/downloads

CHARACTERISTICS	
Input Voltage Range (TEG Harvester)	11V to 48V DC
Maximum Load (Natural Convection)	15A or 250W
Maximum Load (Forced Convection)	15A or 450W
Control Temperature	-50°C to +250°C
Operating Temperature	-25°C to +85°C
Compatible Fans	2, 3 and 4 Wire Fans
Fan Output Voltage Range	12V, 24V, 48V
Sensor Type	K, NTC
Communication Interface	USB-C 2.0, RS232, Isolated 232/485 (Optional)
Storage	EEPROM
Temperature Control Accuracy	+/- 0.5°C
Protection	Overcurrent, Temperature, Fan Speed

Adaptive is a registered trademark of European Thermodynamics Limited.
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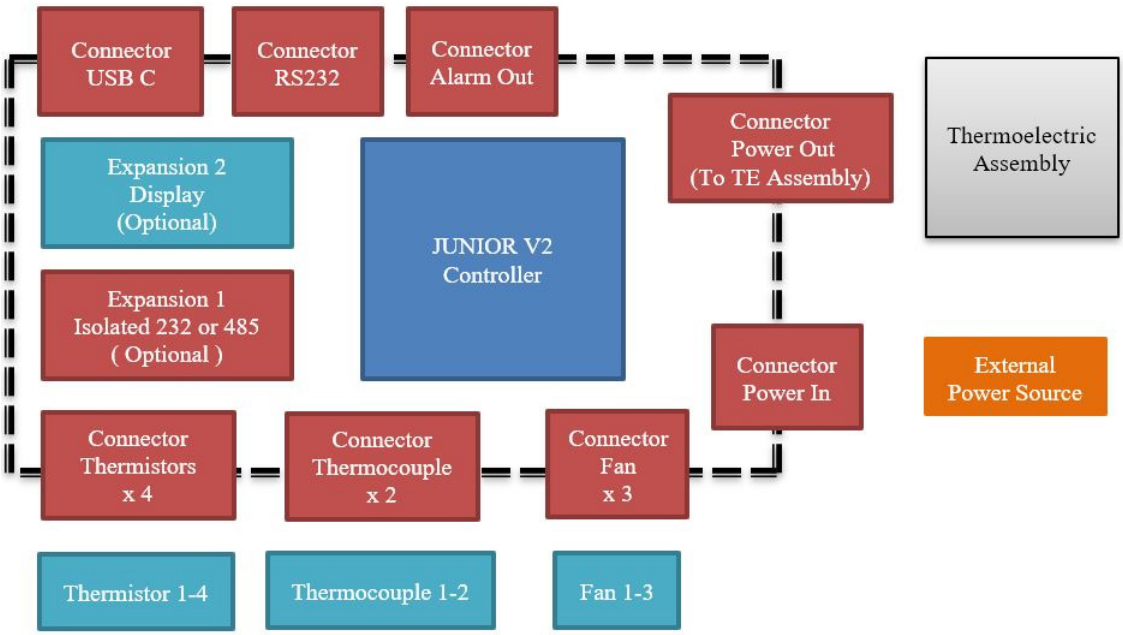
SYSTEM ARCHITECTURE



FURTHER INFORMATION

- Application type - Fans & thermal management
- Application sub type - Electronics heating & cooling
- Contents: 1x controller board