



AccessHAT

Electrical Specifications

Power

Input voltage Min-Max	Input Current Minimum	Minimum Power	Connector
14VAC-48VAC	1.5A	24VA	J3
12VDC-58VDC	2A	20W	J3
48V 802.11AT PoE	500mA	20W	J5 (From Pi)
3.3v	150mA	0.5W	
Output voltage	Output Current Maximum(Cont.)	Maximum Power (Peak)	Connector
5.0VDC ($\pm 0.2v$)	3A	20W	J8 Pin 1
12.0VDC ($\pm 0.3v$)	500mA	8W	J8 pin 2

Connector Function

Connector	Input/Output/Power	Description
J6	I/O/P	Debug port for CM module; For USB interface Only.
J7	I/O	Programmable GPIOs
J9	P	Reference voltage for Level-adjusted GPIO
J10	I/O	Level-adjusted GPIO
J11	I/O/P, passthrough only	Relay 1: COM, NO, NC
J12	I/O/P, passthrough only	Relay 1: COM, NO, NC

GPIO Electrical

Pin	I/O/P/Description	Description
J6	Micro A/B	Debug Port
J6-1	P, Input Only	5v +/- 0.3MAX; 0.9A Typical
J6-2/3	I/O	USB D+/D-; 115200bps (typical)
J6-4	NC	Not used
J6-5	P	Common
J7	I/O/P	General Interface Header
J7-10	I/O/P	270Ω fixed 3.3v pull-up; programmable I/O
J7-9 thru 2	I/O	270Ω fixed impedance; 5v Tolerant, 3.3v out, 10mA High/Low drive Programmable I/O
J7-1	P	Common

J9	P	Reference voltage for Level adjusted GPIO
J9-1	P	V-Ref: 3.3v-15v;1mA MAX
J9-2	P	Common
J10-1	I/O	Level-adjusted GPIO
J10-2	I/O	GPIO 3.3v-15v;

Relays

Pin	I/O/P/Description	Description
J11-1	Passthrough; Latching	“NC1” Position 1
J11-2	Passthrough; Latching	Relay 1 Common
J11-3	Passthrough; Latching	“NO1” Position 2
J12-1	Passthrough; Latching	“NC2” Position 1
J12-2	Passthrough; Latching	Relay 2 Common
J12-3	Passthrough; Latching	“NO2” Position 2

Mechanical Specifications

Dimensions

65x58x23mm (WxLxH)

Weight

50g

Connector

16-30AWG accessible

Clamping Screw M1.6