WiSI™

Powerful

and

Outdoor

Ready

WiSI-EP from Rugid Computer not only eliminates the need for costly and vulnerable wiring, but also reduces the time and complication of putting together an entire outdoor data acquisition package... and for a fraction of the price.

Radio: 2.4 GHz IEEE 802.15.4

Range	Up to 4 KM / 2.5 miles
Transmit Power	+19 dBm, (79 mW)
Receiver Sensitivity	-100 dBm
Antenna Connector	Reverse polarity SMA, 50 ohms
Encryption	128-bit AES, user selectable key
Data Rate	250 kbps

General:

Power	+5 – 30 VDC
Average Power Draw (12 / 24 VDC)	19 mA / 9.5 mA
Operating Temperature	-20 to 70° C
Weight	0.24 kg (0.52 lb)
Mounting	2 inch ID pipe, 2 x 8-32 screws

Sensor Supplies: 3 non-isolated, switched

+18 Volt Supply +5 Volt regulated	25 mA max combined load

Digital Inputs: 4 non-isolated, sinking, wetted 3.0V

Input Voltage Rating	0 – 24 VDC
Input Current	2 mA max at 24 VDC
Pulse Frequency	150 Hz max– sleeping nodes
Pulse Width	50 µs

Digital Outputs: 4 FET, sinking

Voltage Rating	42 V max
Current Rating	2 A max

Analog Inputs: 4 non-isolated 12-bit, single ended

0 – 40 mA	0.04 mA min, 45 mA max
0 – 5 Volts	0.025 V min, +5.15 V max
-1.8 Volts to +1.8 Volts	-1.8 V min, +1.8 V max
0 – 2.2 Volts	0.02 V min, +2.30 V max

Serial Port:

Configuration	RS232
Protocols	Modbus RTU master (Coordinator node RTU slave)

For locations where power is readily available or harvested, WiSI-EP is a valuable solution for your wireless data acquisition needs. With a range that exceeds many other wireless transmitters and generic interfaces that support multiple input types, WiSI-EP is a versatile and powerful data acquisition device. WiSI-EP can also route data from other nodes in the WiSI wireless sensor network for an even greater transmission range.

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