

# ADAM-2017Z

# ADAM-2018Z

Wireless 6-ch Analog Input Node

Wireless 6-ch Thermocouple Input Node

NEW



ADAM-2017Z

R&TTE SRRC FCC CE RoHS

## Specifications

### Analog Input

- Channels 6 Non-Isolation (Differential)
- Input Max Voltage +/-15V
- Common Mode Volts 10 V<sub>DC</sub>
- Input Impedance >10 MΩ (Voltage), 120Ω (Current)
- Input Type mV, V, mA
- Input Range ±150mV, ±500mV, ±1V, ±5V, ±10V, ±20mA, 0~20mA, 4~20 mA
- Accuracy ±0.1% or better (Voltage) or ±0.2% or better (Current) at 25°C
- Span Drift ±25 ppm/°C
- Zero Drift ±6 μV/°C
- Resolution 16-bit
- Sampling Rate 12 samples/second (total)
- CMR @ 50/60 Hz 100 dB
- NMR @ 50/60 Hz 65 dB

## Ordering Information

- ADAM-2017Z Wireless 6-ch Analog Input Node

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## Specifications

### Analog Input

- Channels 6 Non-Isolation (Differential)
- Input Max Voltage +/-1V
- Common Mode Volts 10 V<sub>DC</sub>
- Input Impedance >10 MΩ (Voltage), 54Ω (Current)
- Input Type V, mV, mA (Configure Different Range for Each Channel)
- T/C Types and Temperature Ranges

Type	Range
J	-210°C ~ 1200°C
K	-270°C ~ 1372°C
T	-270°C ~ 400°C
E	-270°C ~ 1000°C
R	-50°C ~ 1768°C
S	-50°C ~ 1768°C
B	200°C ~ 1820°C

- Input Range Voltage Range: ±150mV, ±500mV, ±1V  
Current Range: ±20mA, 0~20mA, 4~20 mA  
Thermocouple Range: J, K, T, E, R, S, B
- Accuracy ±0.1% or better (Voltage) at 25°C  
±0.2% or better (Current) at 25°C  
±2°C or better (Thermocouple) at 25°C
- Span Drift ±30 ppm/°C
- Zero Drift ±6 μV/°C
- Resolution 16-bit
- Sampling Rate 12 samples/second (total)
- CMR @ 50/60 Hz 100 dB
- NMR @ 50/60 Hz 65 dB

## Ordering Information

- ADAM-2018Z Wireless 6-ch Thermocouple Input Node

## Common Specifications

### Wireless Communication

- IEEE Standard IEEE 802.15.4
- Modulation Type DSSS (OQPSK)
- Frequency Band ISM 2.4 GHz (2.4 GHz ~ 2.4835 GHz)
- Channels 11 - 26
- RF Data Rate 250 Kbps
- Transmit Power Typ. 3 ± 1 dBm
- Receiver Sensitivity -97 dBm
- Topology Star / Tree / Mesh
- Outdoor Range 110 m
- Function End Device

### General

- Connectors 1 x plug-in terminal block (#14 ~ 22 AWG)
- Power Input Unregulated 10 ~ 30 V<sub>DC</sub>
- Battery Input 2 x AA Alkaline
- Power Consumption 0.3 W @ 24 V<sub>DC</sub>  
Battery AA \* 2  
420 uW @ 3 V<sub>DC</sub> (1 minute Tx Interval)  
240 uW @ 3 V<sub>DC</sub> (2 minute Tx Interval)  
150 uW @ 3 V<sub>DC</sub> (5 minute Tx Interval)

### Environment

- Operating Temperature External Power -20°C ~ 70°C (-4°F ~ 157.9°F)  
Battery Power 0°C ~ 50°C (32°F ~ 122°F)
- Storage Temperature -40°C ~ 85°C (-40°F ~ 184°F)
- Operating Humidity 20~95% RH
- Storage Humidity 0~95% RH