

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







ADAM-2031Z ADAM-2017PZ ADAM-2051PZ

Wireless Temperature & Humidity Sensor Node Wireless 6-ch Analog Input Node with Power Amplifier

Wireless Sensor Network 8-ch Digital Input Node with Power Amplifier





((() R&TTE F© C € E **€**SRRC

-20°C ~ 70°C (-4°F ~ 157.9°F)

< 0.04°C/Year (0.07°F/Year)

±6.0% RH @ 40 ~ 60% RH

8 seconds (Achieving 63% of a

0.02°C (0.04°F)

±1.0°C @ 25 ~ 40°C

±2.0°C

±1°C/min.

0 ~ 100% RH

step function)

0.5% RH/Year

0.15% RH

±8.0% RH

Features

- IEEE 802.15.4 Wireless Standard
- Supports Star/Tree/Mesh Network Topologies
- Modbus Communication Protocol
- Low Power Consumption
- LED Indicators
- Sensor Embedded

Specifications

Temperature Sensor Input

- **Operating Range**
- Resolution Accuracy
- (Battery Mode) Response Rate
- Long Term Drift
- **Humidity Sensor Input**
- **Operating Range** Resolution
- Accuracy
- (Battery Mode) Response Time
- Long Term Drift

General

Power Consumption

0.3 W @ 24 Vnc (Battery AA * 2) 420 uW @ 3 Vnc (1 minute Tx Interval) 240 uW @ 3 V_{DC} (2 minute Tx Interval) 150 µW @ 3 Vnc (5 minute Tx Interval)

Ordering Information

ADAM-2031Z

Wireless Temperature & Humidity Sensor Node



ADAM-2017PZ

(MI R&TTE F© C € ROHS

6 Non-Isolation (Differential)

 $>10 \text{ M}\Omega$ (Voltage), 120Ω (Current)

±150mV, ±500mV, ±1V, ±5V, ±10V,

Voltage: +/-0.1% or better at 25°C

Current: +/-0.2% or better at 25°C

±20mA, 0 ~ 20mA, 4 ~ 20 mA

12 samples/second (total)

+/-15V

mV, V, mÀ

±25 ppm/°C

±6 μV/°C

16-bit

100 dB

65 dB

Features

- IEEE 802.15.4 Wireless Standard
- Supports Star/Tree/Mesh Network Topologies
- Modbus Communication Protocol
- LED Indicators

Specifications

Analog Input

- Channels
- Input Max Voltage Common Mode Volts
- Input Impedance
- Input Type Input Range
- Accuracy
- Span Drift
- Zero Drift
- Resolution
- Sampling Rate CMR @ 50/60 Hz
- NMR @ 50/60 Hz

General

Power Consumption

0.5 W @ 24 V_{DC} (Battery AA * 2) 380 uW @ 3 V_{DC} (1 minute Tx Interval) 220 uW @ 3 V_{DC} (2 minute Tx Interval) 130 HW @ 3 Vpc (5 minute Tx Interval)

Orderina Information

ADAM-2017PZ

Wireless 6-ch Analog Input Node with Power Amplifier



ADAM-2051PZ

NI RATTE FC CE

SRRC

Features

- IEEE 802.15.4 Wireless Standard
- Supports Star/Tree/Mesh Network Topologies
- Modbus Communication Protocol
- LED Indicators
- Event Triggering

Specifications

Digital Input

- Channels
- Input Resistance Input Level

Dry contact:

Logic level 0: Close to GND Logic level 1: Open Wet contact: Logic level 0: 0-0.8 V max

Logic level 1: 2.0 ~ 5.0 V (Note: The Digital Input Level 0 and 1 status can be inverted)

10 KO

General

Power Consumption

0.3 W @ 24 V_D (Battery AA * 2) 380 uW @ 3 Vpr (1 minute Tx Interval) 220 uW @ 3 VDC (2 minute Tx Interval) Ì30 uW @ 3 Voc (5 minute Tx Interval)

Ordering Information

- ADAM-2051P7
- ADAM-20517

Wireless 8-ch Digital Input Node with Power Amplifier Wireless 8-ch Digital Input

Common Specifications

Wireless Communication

- **IEEE Standard Modulation Type**
- Frequency Band Channels
- **RF Data Rate**
- Transmit Power Tvp.
- IEEE 802.15.4 DSSS (OQPSK)
 - ISM 2.4 GHz (2.4 GHz ~ 2.4835 GHz) 11 - 26 250 Khns
 - 3 ± 1 dBm (ADAM-2031Z, ADAM-2051Z) 15 ± 1dBm (ADAM-2017PZ) 19 ± 1 dBm (ADAM-2051PZ)
 - **Receiver Sensitivity** -97 dBm Topology Star / Tree / Mesh

- Outdoor Range
- Function

General

- Connectors
- Power Input
- Battery Input

Environment

- **Operating Temperature** External Power
- Rattery Power Storage Temperature
- Storage Humidity
- End Device 1 x plug-in terminal block (#14 ~ 22 AWG)

110 m with line of sight (ADAM-2031Z, ADAM-2051Z) 1000 m with line of sight (ADAM-2017PZ, ADAM-2051PZ)

- Unregulated 10 ~ 30 Vnc 2 x AA Alkaline
- -20°C ~ 70°C (-4°F ~ 157.9°F) 0°C ~ 50°C (32°F ~ 122°F) -20°C ~ 70°C (-4°F ~ 157.9°F)
- **Operating Humidity** 20 ~ 95% RH $0 \sim 95\% \text{ RH}$