

# ADAM-2051Z

# ADAM-2051PZ

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

NEW



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R&TTE SRRCC FCC CE RoHS COMPLIANT 2002/95/EC

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## Specifications

### Digital Input

- Channels 8
- Input Resistance 10 Kohm
- Input Level Logic Level 0 0~0.8 Vmax  
Logic Level 1 2.0 Vmin~5.0 Vmax  
Supports wet and dry contacts

## Ordering Information

- ADAM-2051Z Wireless 8-ch Digital Input Node

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## 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. ADAM-2051Z: Typ.  $3 \pm 1$  dBm  
ADAM-2051PZ: Typ.  $19 \pm 1$  dBm
- Receiver Sensitivity -97 dBm
- Topology Star / Tree / Mesh
- Outdoor Range ADAM-2051Z: 110 m  
ADAM-2051PZ: 1000 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  
380 uW @ 3 V<sub>DC</sub> (1 minute Tx Interval)  
220 uW @ 3 V<sub>DC</sub> (2 minute Tx Interval)  
130 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