



# WBT900-IP F140 Wireless BACnet-IP Transceiver

## APPLICATIONS:

- Building Automation
- HVAC Controls
- Remote Monitoring
- kW Metering
- Gas Metering
- Water/Flow Monitoring
- Emergency Generator Controls
- Lighting Controls
- Critical Asset Monitoring
- Access Control

## FEATURES:

- Plug-and-Play!
- Extended Ranges up to several miles
- 256 bit AES Encryption
- FIPS 140.2 Certified
- Great penetration ability
- Transparent to the network



The WBT900-IP F140 allows you to install a close or long range point-to-multipoint wireless BACnet-IP network at a fraction of the cost of installation labor, conduit and cable.

The WBT900-IP F140 features an easy to use, plug-and-play configuration, requiring no special programming tools or network management software.

Offering advanced security measures including 256 bit AES encryption and NIST Certified FIPS 140-2 Level 2, makes the WBT900-IP F140 the solution for any facility.

WBT900-IP F140 SPECIFICATIONS	
Frequency	902-928 MHz (Direct Sequence Spread Spectrum - DSSS)
RF Transmission Rate	1.536 Mb/s
Data Throughput	935 Kb/s
Output Power	+21 dBm (4 Watts EIRP when used with 15 dBi antenna)
Receive Sensitivity	-97 dBm at 10e-4 BER (-112 dBm with 15 dBi antenna)
Radio Link Budget	148 dB with 15 dBi antenna
Range	40 Miles LOS with 15 dBi antenna
Radio Channels	12 non-overlapping
Connector Types	RPSMA, 2 Pin Power Plug , Ethernet RJ45 10/100BaseT
Power Consumption	Transmit: 2.4 W, Receive: 1.7 W (100ma @ 24VAC/DC)
Voltage	12-24 VAC/DC (isolated power supply required)
Temperature Range	-20° C to 70° C (-4° F to 158° F)
Dimensions	4.3" x 3.35" x 1.75" (109mm x 85 mm x 44.5mm)
Weight	Approximately .6 lbs
Certifications	FCC: R4N-AW900M IC: 5303A-AW900M
Communication Protocol	BACnet-IP



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# ***FIPS 140-2 High Security Encryption Module***

The AIC Wireless WBT900-F140 contains an added security module concealed with a government-approved tamper-evident coating with NIST certification for FIPS 140-2 Level 2, 256-bit encryption.

## FEATURES:

- NIST certified FIPS140-2 Level 2 encryption to ensure secure communication
- AES 128, 192 or 256-bit encryption up to 5 Mbps for user-specific applications
- Programming interface provides two separately password-protected user modes, Crypto Officer and User. The User can check status but only the Crypto Officer can set the encryption keys
- Physically and electrically tamper evident to protect encryption keys from becoming compromised
- 45mA @ 3.3 VDC for low power applications and small thermal impact