

Add a Wi-Fi communication module to your BaseStation 1000 irrigation controller to enable reliable wireless connectivity. The Wi-Fi module sends and receives data over an existing Wi-Fi network at your site. Baseline's Wi-Fi modules for the BaseStation 1000 have the following technical specifications.

Module Description

2.4 GHz IEEE 802.11b/g™

Security

Supports 802.1x, 802.1i security
WEP
WPA-PSK
WPA-2-PSK

Network Interface

IEEE 802.11 - compliant RF transceiver
Compatible with IEEE 802.11b/g/n networks

RF/Analog Features

ISM Band 2.400 to 2.484 GHz operation
Channels 1-11
DSSS/OFDM modulation
Application throughput: approximately 1125 kbps
Integrated low phase noise VCO, RF frequency synthesizer, PLL loop filter, and PA
Integrated RSSI ADC and I/Q DACs, RSSI readings available to host

Current Consumption

-95 dBm Typical sensitivity at 1 Mbps
+18 dBm Typical 802.11b TX power with control
+16 dBm Typical 802.11g TX power with control

Power Requirements

Single operating voltage: 2.8V to 3.6V (3.3V typical)

Environment

Operating: -40° C to +85° C (-40° F to +185° F)
Storage: -40° C to +125° C (-40° F to +257° F)

General Information

Dimensions (LxW): 6.4 x 3.8 in (163 x 97 mm)
Antenna Connector: Ultra-miniature coaxial (U.FL)
Certifications: Radio regulation certification for United States (FCC), Canada (IC), and Europe (ETSI)

Compatible BaseStation Firmware

The BaseStation 1000 has integrated support for Wi-Fi communication with firmware version 1.8 and higher.