

Innovative Industrial Solutions



I.I.S.

Vocera B3000n Badge



Features:

- The dual band radio permits the B3000n to utilize both the 2.4 GHz and the 5GHz Wi-Fi spectrum. 5GHz is less susceptible to noise and interference from other radio devices, leading to higher voice quality and better voice recognition.
- The B3000n contains an illuminated Halo around the call button; this Halo provides a visual indication of the Badge call status. It glows green when on an active call and pulses amber when on Do Not Disturb or on hold. The illuminated Halo can also be used to indicate when text messages are waiting to be read.
- A large front facing speaker provides hands-free audio in order to clearly hear the conversation without having to hold the Vocera Badge in the hand.
- Four microphone design and integrated Acoustic Noise Reduction (ANR) reduce background conversations and noise interference to improve speech recognition in noisy environments.
- Multi-user operation (shared device) permits a Vocera Badge to be passed to another user at the end of a shift, allowing the new user to log into the Vocera System from the Vocera Badge and immediately begin using it.

Innovative Industrial Solutions, Inc.

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www.i-i-s.net

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Weighs less than 2 oz. (53.9 g)

Lightweight, wearable design ensures the badge is readily available and easy to use



Voice Controlled, one-button operation

Virtually hands-free use to allow staff to keep working while communicating

Durability

Structurally rugged design, integral spine and reinforced badge housing provide durability



Wireless performance

Dual band WiFi radio provides advanced connectivity to deliver high-quality voice recognition.

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Acoustic performance

Four microphone design and integrated acoustic noise reduction (ANR) reduce background conversations and noise interference to improve speech recognition in noisy environments. Increased speaker volume for audio clarity in high noise environments.



Usability

- ⇒ High contrast OLED display on the front of the badge to facilitate ease of readability
- ⇒ Smart battery and charger technology simplifies battery management
- ⇒ Do-not-disturb button to eliminate interruptions when necessary
- ⇒ Headset jack to facilitate private conversations
- ⇒ Illuminated halo around call button to provide visual status

Antibacterial

BioCote® antimicrobial technology inhibits the growth of microorganisms



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Physical Dimensions

3.9 x 1.4 x 0.7 in. (9.8, 3.6, 1.8 cm)

Weight

1.9 oz. (53.5 g), with battery

LED Indicators

Bi-color LED, illuminated halo

Display Screen

80 x 82 OLED bit-mapped display
Displays 4 lines of text, 15 characters per line,
up to 150 characters per message (font dependent)

Controls

Call button
Hold/do-not-disturb button
Volume/Menu selection buttons

Headset Support

2.5 mm headset jack

Electrical

RF Output Power(2.4GHz): 16 dBm at 802.11b, 18 dBm at 802.11g

RF Receive Sensitivity (2.4GHz): -85 dBm at 11Mbps,
-71 dBm at 54Mbps, -69 dBm at 802.11, 802.11n

RF Output Power (5GHz): 16 dBm at 802.11, 802.11n

RF Receive Sensitivity (5GHz): -90 dBm at 6Mbps, -73 dBm at 54Mbps,
-70 dBm at HT20 MCS7, -68 dBm at HT40 MCS7

Microphone Frequency Range

350 Hz to 3.75 kHz

Directional Microphones

Quad MEMS Microphone array

Speaker Frequency Range

500 Hz to 3.75 kHz

Peak Speaker Loudness

85 dBSPL at 10 cm

Battery

Lithium ion polymer

Battery Life

With standard battery—approx 3 hours talk time
(with UAPSD enabled), 30 hours of standby time
With extended battery—approx. 5 hours talk time
(with UAPSD enabled), 60 hours of standby time

Battery life estimates based on a full charge and environmental factors. Actual battery life may vary from the estimates quoted.

Environmental Operational Ranges

Temperature Range: 0°C to 40°C
Humidity Range: 5 to 95% relative humidity,
non-condensing

Storage Ranges

Temperature Range: -20°C to 40°C
Humidity Range: 5 to 95% relative humidity,
non-condensing

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Drop Specifications

1.5 meters onto concrete

Wireless Specifications Network Standard

IEEE 802.11a, 802.11b, 802.11g, 802.11n

Frequency Band

2400-2484 MHz, 5180-5805 MHz

Data Rates Supported

1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54 Mbps, MCS0-MCS7

Wireless Medium

Direct Sequence Spread Spectrum (DSSS)
Orthogonal Frequency Division Multiplexing (OFDM)

Media Access Protocol

Carrier sense multiple access with collision avoidance (CSMA/CA)

Modulation 2.4GHz (HT20)

DBPSK at 6.5 and 7.2 Mbps
DQPSK at 13, 14.4, 19.5 and 21.7 Mbps
16-QAM at 26, 28.9, 39 and 43.3 Mbps
64-QAM at 52, 57.8, 58.5, 65 and 72.2 Mbps

Modulation 5GHz (HT40)

MCS0-MCS7 at 13.5, 15, 27, 30, 40.5, 45, 54, 60, 81, 90, 108, 120, 121.5, 135 and 150 Mbps

Operating Channels

11 channels (FCC)
13 channels (ETSI)

Roaming

IEEE 802.11a, 802.11b, 802.11g, 802.11n compliant

WLAN Security

Vocera supports standard and vendor-specific security suites. The following modes are supported:

Encryption: None, 64-bit and 128-bit WEP, TKIP, AES-CCMP

Authentication: Open, Pre-shared Key, Cisco EAP (LEAP2) using 802.1x framework, PEAP v0, MSCHAPv2, EAP-FAST with AutoPAC, EAP-TLS
Fast Roaming: CCKM, TLS session resumption

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