

ZD3030 and ZD3030i Cellular and WiFi Sensor

Accurate and reliable detection, location, and continuous monitoring of all WiFi and cellular devices.

Revolutionary Approach for Mobile and BYOD in the Enterprise

ZD3030 sensors are used with AirPatrol software to deliver powerful wireless sensing capabilities with performance characteristics superior to any other currently available wireless sensor.

The AirPatrol platform includes a network of RF sensors that detect and locate cellular and WiFi devices. These passive sensors are sensitive enough to detect a simple ping to the cell tower and detect active wireless transmission of cellular and smart devices. The ZD3030 Cellular/WiFi sensor combines cellular phone detection and 802.11 a/b/g/n device detection in a single package. The ZD3030 has tunable software and programmable RF receivers that dynamically survey active cellular up-link channels and WiFi channels. This sensor is also available for international use, known as the ZD3030i.



Device Types Detected:

Cell Phones, iPads, iPhones, Androids, BlackBerry Devices, Laptops, Tablets, MiFi Devices, Cellular Broadband Cards, WiFi Cards, WiFi Access Points

Wireless Events Detected

Phone Calls, Text Messages, Internet Browsing, Data Transmissions, Emailing, Tower Pings, Network Registrations

Software Programmable Receivers Frequency Bands

300-348 MHz, 387-464 MHz, 600-1000 MHz, 1710-1790 MHz, 1850-1990 MHz, 2500-2570 MHz, and more.

WiFi Modes Detected

802.11b/g (2.4 GHz) 802.11a (5GHz)
802.11n mixed, legacy and greenfield modes
(2.4 GHz, 5 GHz)

Software Compatibility

Compatible with ZoneDefense software

RF Sensitivity

GSM: -55 dBm typical
CDMA: 3G, 4G: -95 dBm typical
WiFi: -100 dBm typical

Omnidirectional whip antennas

North American Cellular Bands Supported (ZD3030)

699-716 LTE	1710-1785 W-CDMA, LTE
777-798 LTE	1850-1910 GSM, CDMA, W-CDMA
806-824 iDEN/SMR	2500-2570 LTE
824-849 GSM, CDMA, W-CDMA	

International Cellular Bands Supported (ZD3030i)

880—915 GSM, W-CDMA	1920-1980 W-CDMA, LTE
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Maximum Range: 20 – 50 meters (65-165 feet)

LAN Type: Assigned Static IP Addresses or DHCP clients

Power Over Ethernet

IEEE 802.3af PoE Compliant (End span injector compatible)

Power Requirements

24VDC Input (Ranges from 24V to 48V) or 8W

Operating Temperature: -20° to +70°C (-4° to + 158°F)

Dimensions: 240mm x 137mm x 42mm (9.45" x 5.40" x 1.65")

Weight: 650 grams (1.4 lbs)

802.3 LAN network interface



ZD3030W Wireless Cellular and WiFi Sensor

Multi-band and frequency support with a wireless mesh backbone.

The ZD3030W uses a wireless mesh based on the IEEE 802.11s standard and removes the requirements for a wired data infrastructure found in the ZD3030(i) sensors. The installation of ZD3030W units do not require data cables and, therefore, require less skill and expertise in the installer. To add to the simplicity, planning and the cost associated with deployment is reduced.

Additional features include:

- **Self-forming.** When units are added or removed the mesh automatically reconfigures itself to include the newly added units or updates its tables when units are removed.
- **Improved coverage control.** Area of coverage can easily be controlled (expanded or contracted) by simply adding or removing a unit in that area. Units can simply be powered on (without the need of adding data cable) to cover blind spots.
- **Range extension.** Problem areas that may have been out of reach due to various limitations can now be covered by simply adding mesh nodes. Mesh nodes can be used to extend the range by adding units in intermediate locations in order to bridge the gap to a remote area.
- **Secure.** Mesh connections are based on AES-CCMP with key lengths up to 256 bits.
- **Flexibility.** Units can be added, removed or moved around without the need to deal with data cables.
- **Scalable.** Scalability is achieved through the use of mesh segments. Up to 30 mesh nodes can be added per mesh segment. Multiple mesh segments can be added to scale the overall system.
- **Self-healing.** Mesh networks are resilient and fault tolerant, which offers great redundancy. Nodes will automatically make connections to peers. The mesh routing algorithms will continuously determine the best path for data flow so that even in the case of node failures or destructive external factors, optimum data flow paths will be selected.

