



Cyberdefense for the Internet of Things

Thingate™ by Vaxxin is the industry's first cybersecurity product expressly designed for the protection of the Internet of Things (IoT.) Deployed at the edge of the IoT as a cybersecurity gateway, the Thingate solution provides comprehensive defense and monitoring for all networked devices within its protective halo. Whether defending a factory production floor, a medical ward, or a connected smart home, Thingate provides comprehensive cybersecurity protection for all networked equipment regardless of computing and networking characteristics. Thingate allows for the expansion and innovation of the IoT, and provides confidence in its secure operation.

Thingate Stops:

- Discovery of networked devices;
- Unauthorized control of device functions;
- Illicit data exfiltration from a device;
- Exploitation of a device's wireless signals;
- Anomalous traffic and data types;
- Spoofing attacks;
- Wireless access point attacks;
- On-premises and external internet attacks, and;
- Data breaches.

Thingate Specifications:

- **Weight:** 3 lbs
- **Interfaces:** USB 2.0 x 2, RJ-45 x 2, RJ-45 Console
- **LED Indicators:** Power, Port Activity, Link Status
- **Encryption Algorithms:** 128-bit WEP, 64-bit WEP, WPA, WPA2, 4096-bit AES 256
- **Antennae:** 2 External
- **Data Link Protocol:** Ethernet, Fast Ethernet, Gigabit Ethernet, IEEE 802.11n
- **Wireless Protocol:** 802.11 b/g/n, Bluetooth 4.0
- **Environmentals:** Operating Temperature: 0°C - 35°C

The Thingate™ feature set is expressly designed to defend against the most common device vulnerabilities and known exploits.

Thingate Features:

- **Device Obscurity** – renders the IoT network invisible to hacker reconnaissance
- **Wireless Signal Security** – prevents on-premises collection of a device's wireless signals
- **Access Control** – strong authorization and authentication controls for adding devices to the secure IoT enclave
- **Traffic Management** – inspects and vets all inbound and outbound traffic
- **Encryption and Authentication** – strong authentication and AES encrypted payload to and from the IoT
- **Logging and Eventing** – generates logging data on behalf of devices and triggers events to alert network operators of suspect activity
- **Packet Capture** – rolling packet capture of IoT device traffic. PCAPs can be stored and analyzed locally or forwarded to a 3rd party system for post-event analysis
- **Analytics** – deep packet inspection and a strong machine-learning analytics engine detect and block anomalous traffic and network behaviors
- **Internal Certificate Authority** – all keys are stored and generated by an internal secure Thingate certificate authority
- **Remote Management** – all Thingate devices deployed in the IoT are monitored and managed remotely through a remote management interface

About Vaxxin

Vaxxin was founded in response to the rapid cross-industry growth of the Internet of Things (IoT), and the increasing cyber vulnerabilities that threaten to impede IoT growth. By combining deep expertise in cybersecurity, encryption, wireless technology, and traffic analysis with patents-pending design concepts, Vaxxin delivers purpose-built solutions designed for the cyberdefense and cybersafety of the Internet of Things.

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