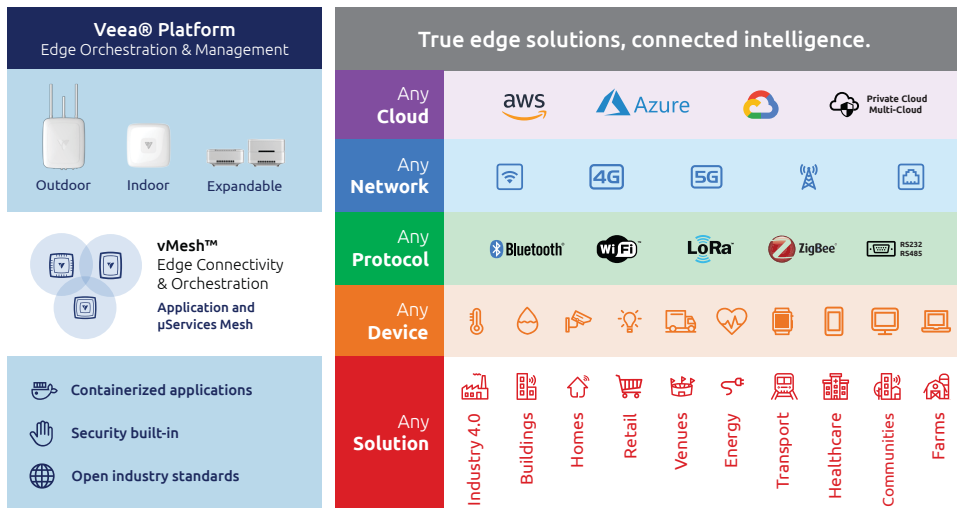


Compact Indoor Smart Computing Hub with Integrated Wireless Access, Server-Class Processing, Mesh Scalability & Expandability

The Veeahub® STAX is the latest member of the Veeahub family, offering a compact footprint for easy deployment, along with the latest processing and connectivity options available in an integrated edge access/computation platform.

Designed to meet the needs of a broad array of smart applications, the Veeahub STAX integrates wired and wireless connectivity, quad core compute resources, and enough storage to support low-latency, IoT and data-intensive edge applications with no-code AI while providing for privacy and data sovereignty and context awareness — all secured by a chain of trust that starts with the hardware that will only run digitally signed software.

The Veeahub STAX extends the capabilities of the Veeahub Edge Platform which is resetting the bar in edge computing, connectivity and security simplicity with a broad range of capabilities typically required for most use cases in one highly integrated unit with mesh networking and computing.



Veeahub is a highly integrated connectivity and computation platform which integrates local mesh interconnect, wireless communication and compute capability into a single scalable unit. Designed to be used either standalone or as part of a mesh network, the Veeahub combines the functions of Wireless Routers, IoT Gateways, and local servers into a single cloud-managed unit. Central to managing this sophisticated wireless network is the Veeahub; a cloud-based dashboard that provides multiple easy to view graphical user interfaces backed up by a powerful backend management tool.



Product Highlights

- Tri-band Wi-Fi 6 Access Point
- IoT Gateway supporting Bluetooth (Classic and Bluetooth LE), Zigbee, Thread/ 6LoWPAN, GNSS supported by 4G LTE or 5G (Sub-6 GHz) WAN
- Mesh router with advanced networking
- Linux server with quad-core CPU and virtualized software environment for Secure Docker² containers, Software Defined Networking (SDN) and Network Function Virtualization
- Up to 2TB local Storage
- Veeahub Developer Portal with toolkit for application developers
- IoT Gateway Application toolkit with automation tools and templates
- Comprehensive multi-tenant cloud management
- Modular expandability
- Fan-less; No special cooling required
- Operating temperature 0°C to 40°C



Intelligently Connected™

¹ Optional module/feature

² Veeahub holds unique IP on Secure Docker containers that provide for highly secure platform environment for sandboxed applications to run on Veeahub.

Compute	
Processing	<ul style="list-style-type: none"> • Arm® Cortex®-A53 • Quad-core @ 1.4GHz
Memory	<ul style="list-style-type: none"> • 3 GB PCDDR4
Internal Storage	<ul style="list-style-type: none"> • 32 GB eMMC flash
External Storage	<ul style="list-style-type: none"> • Up to 2TB via microSDXC™
Hardware Acceleration	<ul style="list-style-type: none"> • Dual Network Processing Units @ 1.5GHz • Cryptography Engine • Packet Processing Engine

Wi-Fi®	
Standards	<ul style="list-style-type: none"> • Tri-band IEEE 802.11 a/b/g/n/ac/ax
Radio Chains and Peak PHY Rates	<ul style="list-style-type: none"> • 2.4GHz: 2x2:2 / 574 Mbps • 5.2GHz: 2x2:2 / 1201 Mbps • 5.7GHz: 2x2:2 / 1201 Mbps
Bandwidth	<ul style="list-style-type: none"> • 20, 40, 80 MHz
SSID Management	<ul style="list-style-type: none"> • 12 SSIDs, 4 per WiFi radio
Capacity	<ul style="list-style-type: none"> • 128 clients per radio
Security	<ul style="list-style-type: none"> • WPA-PSK, WPA-TKIP, WPA2 AES, WPA3, 802.11i • SSID (AP Isolation) • Dynamic PSK
Other Features	<ul style="list-style-type: none"> • Channel Selection (DFS/ACS) • Device Roaming (802.11r) • AP, Hotspot
RF Configuration	<ul style="list-style-type: none"> • 2 internal antenna per WiFi radio • Patented antenna design
Frequency Bands	<ul style="list-style-type: none"> • 2.4 - 2.484 GHz (ISM) • 5.17 - 5.25 GHz (U-NII-1) • 5.25 - 5.33 GHz (U-NII-2) • 5.49 - 5.73 GHz (U-NII-2e) • 5.73 - 5.83 GHz (U-NII-3)

IoT Connectivity	
Bluetooth®	<ul style="list-style-type: none"> • Bluetooth Classic 4.2 • Bluetooth 5.x (Bluetooth Low Energy)
Zigbee®	<ul style="list-style-type: none"> • Zigbee 3.0, Zigbee Pro
Thread®	<ul style="list-style-type: none"> • Supported

WWAN Connectivity	
Optional with 4G or 5G modules	
5G Module	<ul style="list-style-type: none"> • 3GPP R.16 NSA/SA, Sub-6 GHz • GNSS • External uSIM tray • Internal eSIM
4G / LTE Module	<ul style="list-style-type: none"> • CAT-6 to CAT-19 • GNSS • External uSIM tray • Internal eSIM

Networking	
Mesh	<ul style="list-style-type: none"> • Wired or Wireless • vMesh® Technology
IP	<ul style="list-style-type: none"> • IPv4, IPv6, dual-stack
Security	<ul style="list-style-type: none"> • Stateful Firewall • 802.1Q VLAN • 802.1x • VxLAN

Physical Interfaces	
Status LED(s)	<ul style="list-style-type: none"> • Multi-color status LED
WAN / LAN Ports	<ul style="list-style-type: none"> • 2x 1000 Base-T Ethernet
Expansion Connector	<ul style="list-style-type: none"> • Proprietary, multiple high-speed interconnects
PoE	<ul style="list-style-type: none"> • Optional cradle
Other	<ul style="list-style-type: none"> • microSDXC™ Slot • Reset button

Physical Characteristics	
Environment	<ul style="list-style-type: none"> • Indoors
Colors	<ul style="list-style-type: none"> • White
Dimensions (L x W x H)	<ul style="list-style-type: none"> • 107mm x 107mm x 49mm (base unit) • 107mm x 107mm x 87mm (with 4G or 5G Module)
Weight	<ul style="list-style-type: none"> • 0.41 kg (base unit) • 0.69 kg (with 4G or 5G Module)
Mounting Options	<ul style="list-style-type: none"> • Desk • Ceiling
Operating Temp.	<ul style="list-style-type: none"> • 0°C to 40°C

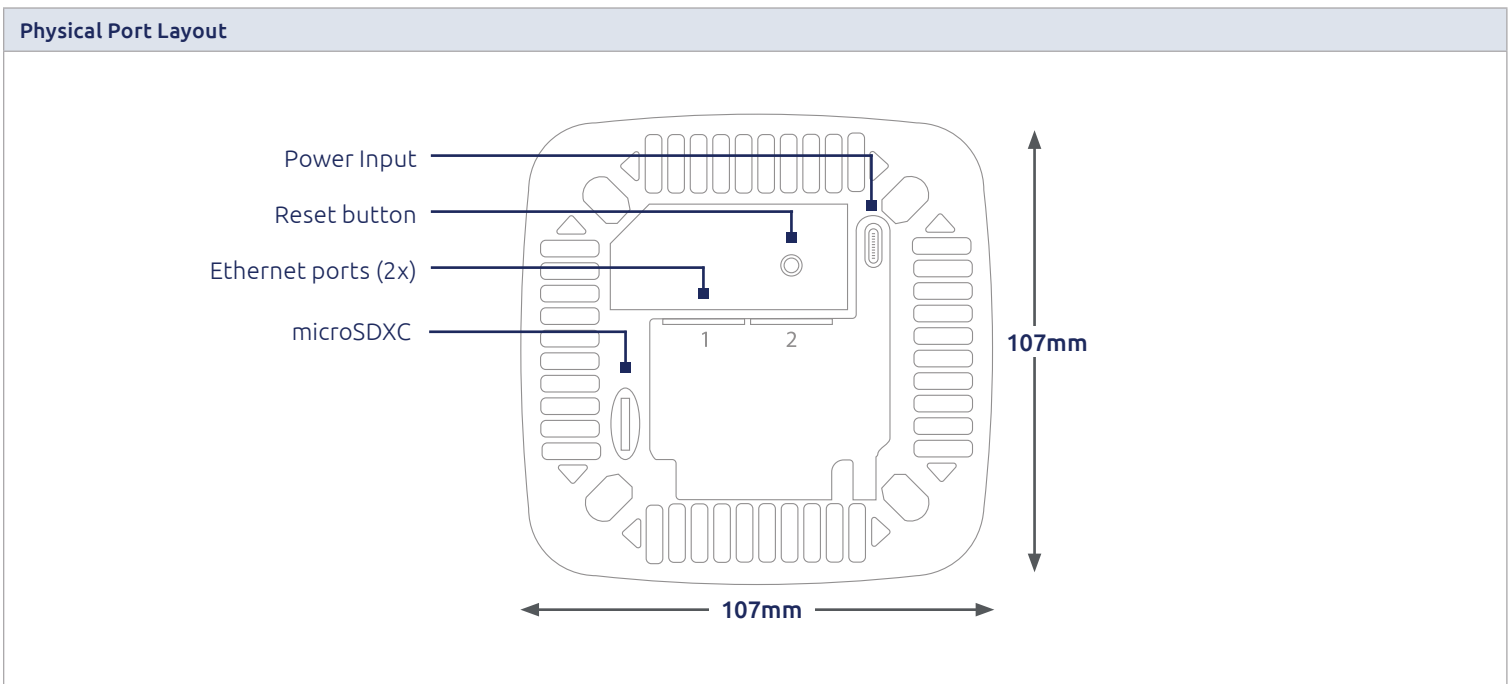
Power	
Power Supply	<ul style="list-style-type: none"> • 12 VDC @ 2.5A
Typical Consumption	<ul style="list-style-type: none"> • 14.1 W (base unit) • 18 W (with 4G or 5G module)

Certifications and Compliance	
Electric Certifications	<ul style="list-style-type: none"> • FCC / CE / KC / SSRC / UL

Software & Services	
For more information, visit veea.com/resources	
Management & Monitoring	<ul style="list-style-type: none"> • Veeahub Control Center • Veeahub Manager
Cloud Services	<ul style="list-style-type: none"> • Veeahub Cloud
VeeahubWare & Edge Applications	<ul style="list-style-type: none"> • Containerized applications • Veeahub Developer Toolkit

Warranty	
Type	<ul style="list-style-type: none"> Limited device warranty Veeacare extended warranty packages available.

Ordering Information	
Contact us at sales@veea.com for sales or additional information	
Model Number	<ul style="list-style-type: none"> VHC25
Optional Accessories	<ul style="list-style-type: none"> Veeacare packages 4G/LTE Module 5G Module Mounting Bracket Spare Ethernet Cable



Specifications subject to change without notice. Country-specific regulatory information is available upon request.

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