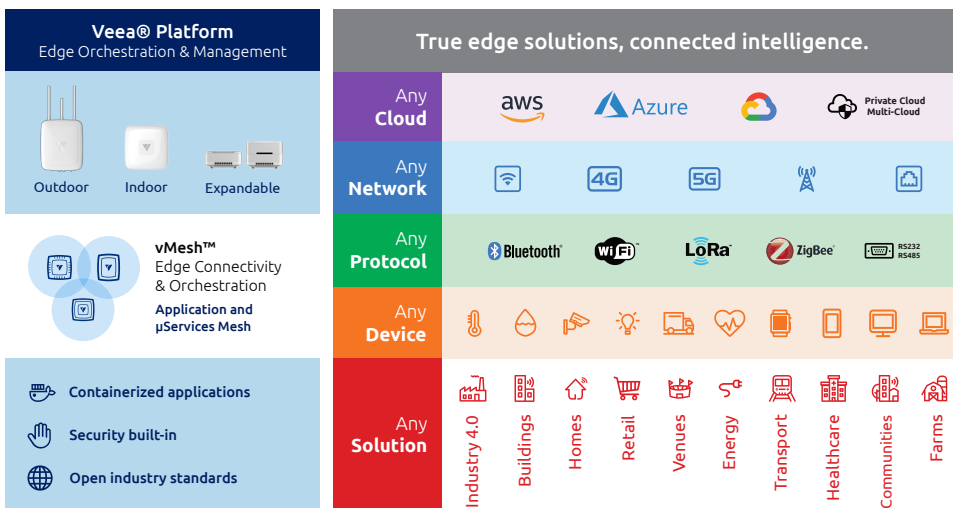


Compact Indoor Smart Computing Hub with Integrated Wireless Access, Server-Class Processing, Mesh Scalability & Expandability

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 ONE 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 Cloud; a cloud-based dashboard that provides multiple easy to view graphical user interfaces backed up by a powerful backend management tool.

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.



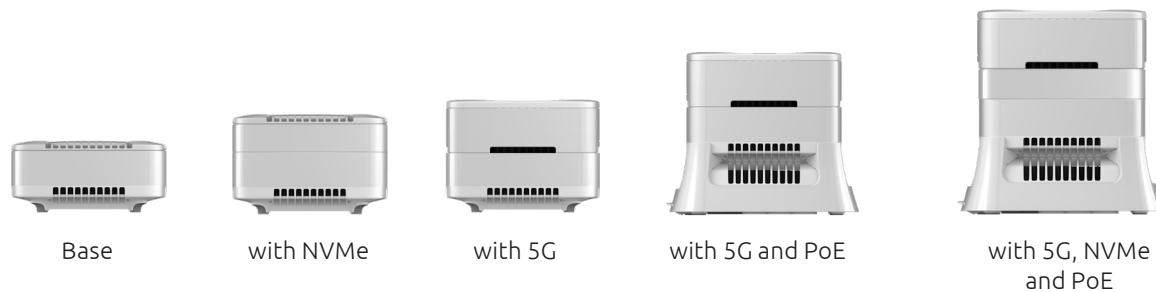
Product Highlights

- 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 with optional NVMe support via module
- 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



Modular Expandability

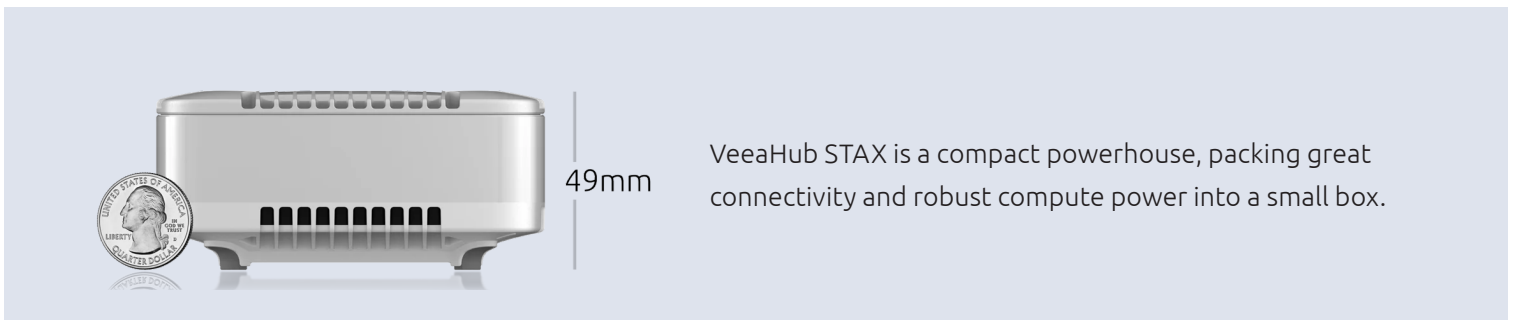
Unlike fixed, single-purpose devices, the Veeahub STAX is designed to grow with your business needs. The platform supports a modular expansion system that allows customers to add capabilities such as Power-over-Ethernet (PoE) or 5G connectivity.



Modules can be pre-installed at purchase as part of a bundle, or shipped separately for technician installation at a later stage. Once attached, the modules are automatically detected and configured by the system, eliminating the need for complex setup. Businesses can monitor and manage module performance directly through Veeahub Control Center or the Veeahub Manager mobile app, ensuring full visibility and control from day one.

This modular design future-proofs deployments, giving enterprises the flexibility to add advanced features only when needed, reducing upfront costs while ensuring long-term scalability.

The 5G and PoE modules for Veeahub STAX provide significant business benefits by enhancing connectivity and reducing the total cost of ownership (TCO). With the 5G Module, businesses gain high-speed wireless access in areas lacking reliable wired connections. The PoE module simplifies infrastructure by delivering both power and data through a single Ethernet cable, cutting down on installation costs and reducing the need for additional power outlets, making device placement more flexible.



Complete Edge Platform in a Compact Design

With its small footprint, modular expandability, optional 5G connectivity, and NVMe-enabled performance, the Veeahub STAX represents a new class of compact edge computing platform. It brings together computing, connectivity, and storage in one unit that is easy to deploy, scale, and manage through the Veeahub ecosystem.

Whether supporting IoT devices, enabling high-speed connectivity in underserved areas, or powering data-intensive applications, the Veeahub STAX delivers enterprise-grade capability in a package no bigger than your hand.

Compute	
Processing	- Arm® Cortex®-A53 - Quad-core @ 1.4GHz
Memory	3 GB PCDDR4
Internal Storage	32 GB eMMC flash
External Storage	- Up to 2TB via microSDXC™ - Optional 1 TB or 2 TB NVMe® Storage Module
Hardware Acceleration	- Dual Network Processing Units @ 1.5GHz - Cryptography Engine - Packet Processing Engine

Wi-Fi®	
Standards	Tri-band IEEE 802.11 a/b/g/n/ac/ax
Radio Chains and Peak PHY Rates	2.4GHz: 2x2:2 / 574 Mbps 5.2GHz: 2x2:2 / 1201 Mbps 5.7GHz: 2x2:2 / 1201 Mbps
Bandwidth	20, 40, 80 MHz
SSID Management	12 SSIDs, 4 per WiFi radio
Capacity	128 clients per radio
Security	- WPA-PSK, WPA-TKIP, WPA2 AES, WPA3, 802.11i - SSID (AP Isolation) - Dynamic PSK
Other Features	- Channel Selection (DFS/ACS) - Device Roaming (802.11r) - AP, Hotspot
RF Configuration	2 internal antenna per WiFi radio - Patented antenna design
Frequency Bands	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®	- Bluetooth Classic 4.2 - Bluetooth 5.x (Bluetooth Low Energy)
Zigbee®	Zigbee 3.0, Zigbee Pro
Thread®	Supported

WWAN Connectivity	
Optional with 4G or 5G modules	
5G Module	3GPP R.16 NSA/SA, Sub-6 GHz - GNSS - External uSIM tray - Internal eSIM
4G / LTE Module	- CAT-6 to CAT-19 - GNSS - External uSIM tray - Internal eSIM

Networking	
Mesh	- Wired or Wireless - vMesh® Technology
IP	IPv4, IPv6, dual-stack
Security	- Stateful Firewall 802.1Q VLAN 802.1x - VxLAN

Physical Interfaces	
Status LED(s)	Multi-color status LED
WAN / LAN Ports	2x 1000 Base-T Ethernet
Expansion Connector	Proprietary, multiple high-speed interconnects
PoE	Optional cradle
Other	- microSDXC™ Slot - Reset button

Physical Characteristics	
Environment	Indoors
Colors	White
Dimensions (L x W x H)	107mm x 107mm x 49mm (base unit) 107mm x 107mm x 87mm (with 4G or 5G Module)
Weight	0.41 kg (base unit) 0.69 kg (with 4G or 5G Module)
Mounting Options	- Desk - Ceiling
Operating Temp.	0°C to 40°C

Power	
Power Supply	12 VDC @ 2.5A
Typical Consumption	15.8 W (base unit) 20.8 W (with 5G module) 20.8 W (with PoE module) 20.3 W (with NVMe module)

Certifications and Compliance	
Electric Certifications	FCC / CE / KC / SSRC / UL

Software & Services	
For more information, visit veea.com/resources	
Management & Monitoring	- Veeah Control Center - Veeahub Manager
Cloud Services	Veeah Cloud
VeeahWare & Edge Applications	- Containerized applications - Veeahub Developer Toolkit

2.4GHz – RX Sensitivity / TX Power (dBm)								
	HT20				HT40			
	MCS0		MCS7		MCS0		MCS7	
RX	-94		-75		-91		-72	
TX	21		19		21		19	
	HE20				HE40			
	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
RX	-94	-75	-70	-64	-91	-73	-67	-61
TX	21	19	18	16	21	19	18	16

5GHz – RX Sensitivity / TX Power (dBm)											
VHT20				VHT40				VHT80			
MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9
-92	-73	-70	–	-89	-70	-67	-64	-86	-67	-64	-61
20	18	17	–	20	18	17	17	20	18	17	17
HE20				HE40				HE80			
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-92	-73	-67	-63	-89	-70	-65	-60	-86	-67	-62	-57
20	18	17	15	20	18	17	15	20	18	17	15

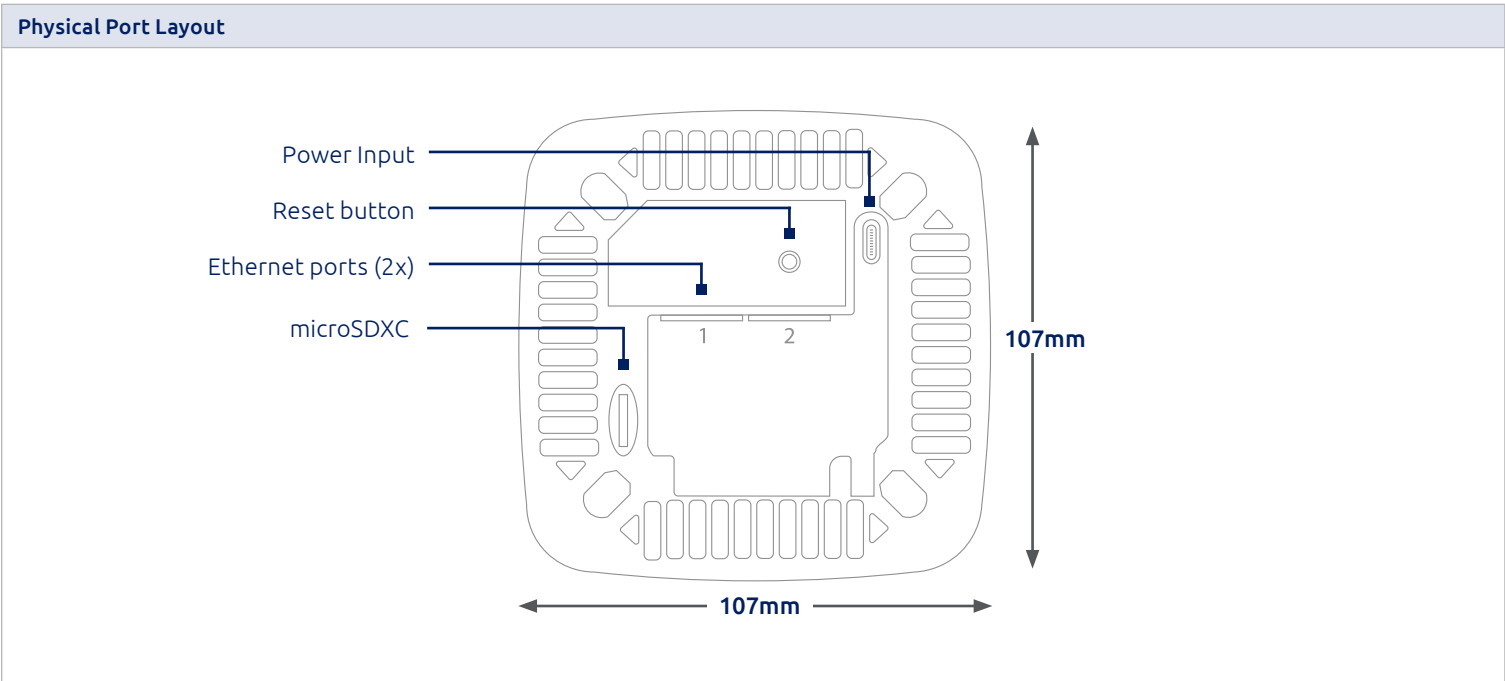
5G Module (Optional)		
Chipset		Qualcomm Snapdragon X62-based
eSIM / uSIM		- External uSIM tray - Internal eSIM
5G	NR	3GPP Release 16 NSA/SA operation, Sub-6 GHz
	NSA Bands	n1/n2/n3/n5/n7/n8/n12/n13/n18/n20/n25/n26/n28/n30/n38/n40/n41/n48/n66/n71/n77/n78/n79
	SA Bands	n1/n2/n3/n5/n7/n8/n12/n13/n18/n20/n25/n26/n28/n30/n38/n40/n41/n48/n66/n71/n77/n78/n79
	Sub-6 CA	FDD + FDD, TDD + TDD, FDD + TDD 2CA
	DL 4x4 MIMO	n1/n2/n3/n7/n25/n38/n41/n48/n66/n77/n78/n79
4G	Category	CAT-19
	Bands	B1/B2/B3/B4/B5/B7/B8/B12(B17)/B13/B14/B18/B19/B20/B26/B28/B29/B30/B32/B38/B39/B40/B41/B42/B43/B48/B66/B71
	DL 4x4 MIMO	B1/B2/B3/B4/B7/B38/B41/B42/B43/B48/B66

PoE Module (Optional)	
Standard	Support PoE++ (802.3bt Type 3, Class 4 or Class 5)
Dimensions	48mm high (module itself) 78.5mm high (with STAX Base)
Ethernet	- nBase-T Multi-Gigabit Ethernet RJ45 Copper 1G, 2.5G, 5G and 10G speeds
Roles	Configurable as a LAN or WAN interface
Mounting Options	- Ceiling - Wall
Notes	Class 5 required for additional modules such as 5G.

NVMe Module (Optional)	
Standard	NVM Express (NVMe)
Dimensions	19.14mm high (module itself) 68.14mm high (with STAX Base)
Storage Options	1 TB 2 TB
Performance	- Write: up to 200MBps - Read: up to 450MBps
Use Cases	- Streaming & Video on Demand (VoD) - AI Model Inference at the Edge - Metaverse & Real-Time 3D Rendering - Storage/CDN Cybersecurity and DDoS Mitigation

Warranty	
Type	- Limited device warranty - VeeahCare extended warranty packages available.

Ordering Information	
Contact us at sales@veea.com for sales or additional information	
Model Number	VHC25
Optional Accessories	- VeeahCare packages 4G/LTE Module 5G Module - NVMe Storage Module - Mounting Bracket - Spare Ethernet Cable



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

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