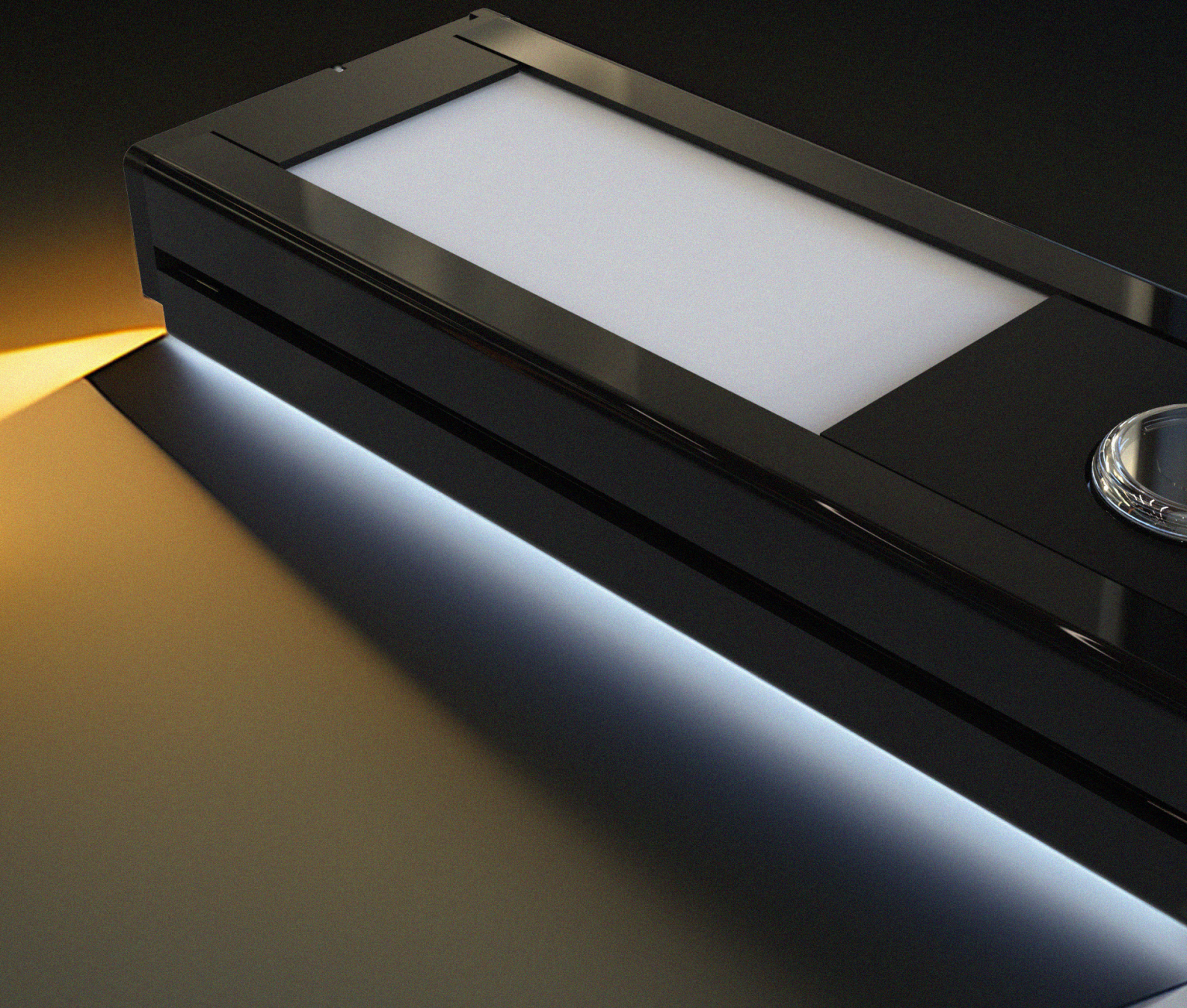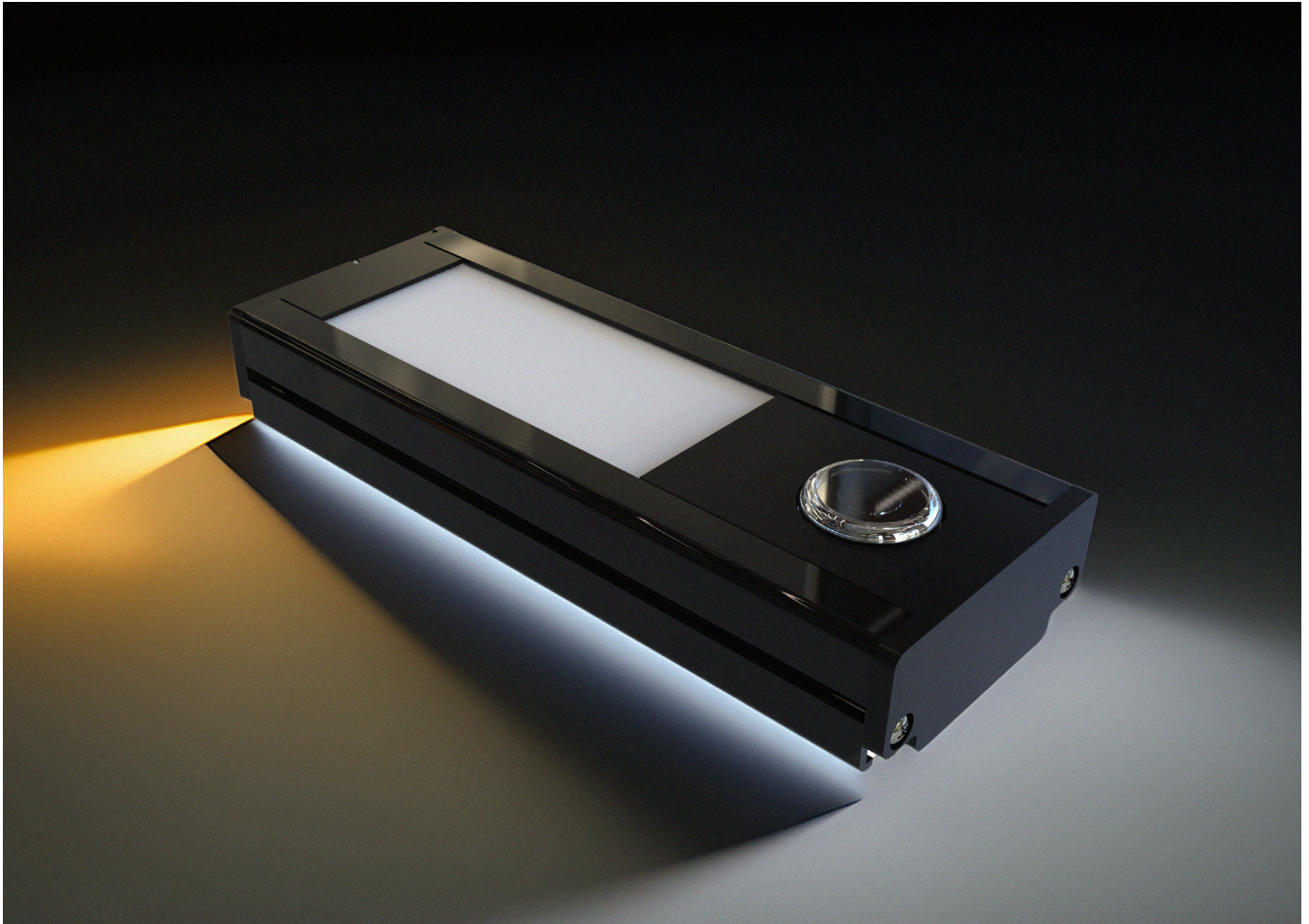Lean Replenishment Starts *Here*
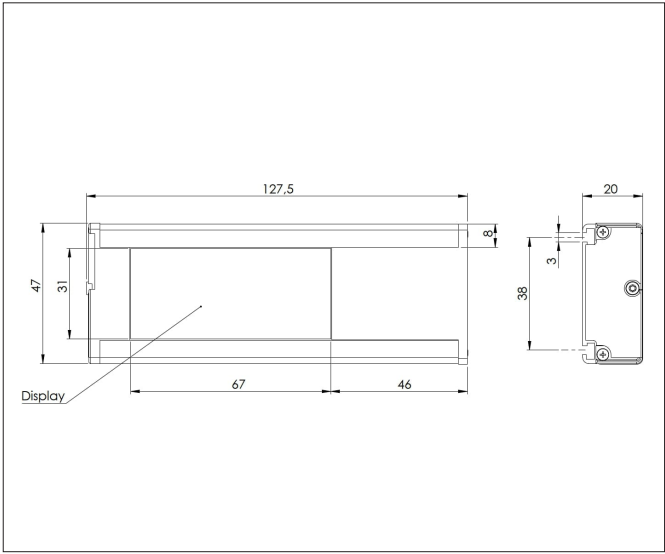
SMAVOO
Indoor Tracker

Description

The SMAVOO Indoor Tracker is a highly adaptable tracking solution that enables real-time location monitoring within warehouses, production facilities, and logistics centers. The device is available in two configurations: with an integrated 2.9-inch electronic paper display (EPD) for dynamic information, or without a display for streamlined tracking purposes. The EPD version allows users to update key tracking information such as asset status, location, or instructions, ensuring seamless workflow integration. The low-power design and hybrid connectivity options (WiFi, LoRaWAN, and Bluetooth) provide reliable data transmission while maximizing battery efficiency. Built for industrial durability, the SMAVOO Indoor Tracker ensures precision tracking and enhanced operational visibility in modern, high-traffic indoor environments.

Key Features

01. With or Without EPD-Display

02. Positioning Accuracy: Up to 1 Meter

03. Compact and Durable for Industrial Environments

04. Zone-Based Alerts and Geofencing

Enclosure	Dimensions	127,5 mm x 47 mm x 20 mm
	Material & Color	Aluminium, ABS, black
	Installation	Wall mounting, 3M tape or screws, 4x M2.5 T-slot rail
Power Management	Power Supply	3x AAA batteries
	Lifetime	Up to 4 years with three refreshes per day
Temperature Regulations	Operating Temperature	0 °C to +40 °C
	Ingress Protection (IP)	IP40
Quality & Compliance	Certifications	CE, CE (RED), FCC, ISED
	Warranty	24 months
Device Functionality	Display	Black and white e-paper display, full refresh time under one second
	Button	Order button with RGB LED
	External Connector	Service interface

Use-Cases

Goods Receipt

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Warehouse

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Picking & Internal Transport

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Production

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Frequently Asked Questions

How accurate is indoor positioning compared to GPS, and what technology does it use?

The Indoor Tracker uses a combination of WiFi triangulation, Bluetooth beacons, and LoRaWAN technology to achieve sub-meter accuracy within facilities. Unlike GPS, which struggles indoors, our system maintains reliable positioning even in dense warehouse environments with metal structures. Accuracy typically ranges from 30 cm to 3 m depending on beacon density and environment.

What's the difference between models with and without EPD displays, and how do I choose?

The EPD display models (7.5" or 2.9") show dynamic information like asset status, location, or instructions directly on the tracker, perfect for mobile assets that need visual identification. Non-display models are ideal for bulk tracking applications where cost-per-unit matters more than visual feedback. Choose based on whether you need visual information at the point of tracking.

Can the Indoor Tracker work in facilities with poor WiFi coverage?

Absolutely! The hybrid connectivity automatically switches between WiFi, LoRaWAN, and Bluetooth based on signal strength. LoRaWAN is particularly effective in industrial environments, penetrating through walls and metal structures. This failover capability ensures continuous tracking even in WiFi dead zones or areas with electromagnetic interference.

How does the Indoor Tracker integrate with our existing warehouse management system?

Integration is straightforward through standard APIs and webhook capabilities. The tracker system can push real-time location data, geofence events, and status updates directly to your WMS, ERP, or other systems. This enables automated workflows like updating inventory locations, triggering replenishment, or optimizing pick routes based on actual asset positions.

How many trackers can the system support simultaneously?

The system scales from small deployments with dozens of trackers to enterprise implementations with thousands of devices. Performance depends on your infrastructure setup, but most customers successfully track 1,000+ assets simultaneously with update intervals of 30 seconds or less.

SMAVOO

Irrtümer und technische
Änderungen vorbehalten

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30966 Hemmingen

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E-Mail: info@smavoo.com
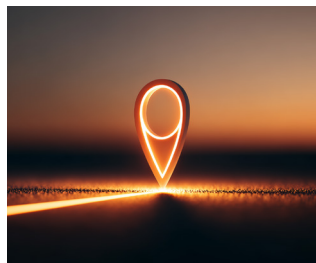www.smavoo.com

ONE.CORE *Function*

SMAVOO ONE.CORE is the heart of the SMAVOO ecosystem — a fully modular sensor platform designed specifically for demanding industrial environments. Unlike conventional IoT devices with fixed feature sets, ONE.CORE adapts precisely to your requirements through interchangeable communication modules, configurable sensor interfaces, and edge-computing capabilities. Born out of frustration with proprietary systems that lock companies into inflexible technologies, ONE.CORE is built on open standards and a future-proof design. Start with exactly what you need today and expand the platform seamlessly as your business grows and evolves naturally — all without having to replace your hardware investment.
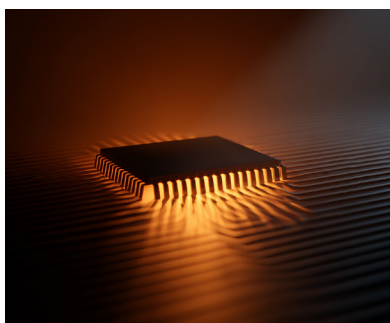
ONE.CORE *Key Features*

01.
Modular Communication: WiFi, LoRaWAN, Bluetooth Low Energy (BLE)

02.
Plug-and-Play Interface for Sensors (RFID, Barcode, Environment, Movement)

03.
Designed for Edge Intelligence, Buffering, and Fail-Safety

ONE.CORE *Multiband*

Core.CPU	240 MHz Dual Core CPU	ADC voltage monitoring (battery)
	520 KB SRAM, 4MB flash	Secure boot with flash encryption
	Hardware encryption (AES, RSA, ECC, HASH)	
	Ultra low power consumption	

Core.WiFi	WPA2 Enterprise (EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST)	
	IEEE 802.11 b/g/n, up to 150 Mbps	
	X.509 certifications (4096-bit)	
	Firmware upgrade via Over-the-Air Update (OTA)	

Core.LoRaWAN (optional)	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4	
	FSK, GFSK, MSK, GMSK, LoRaTM and OOK Modulation	
	127 dB Dynamic Range RSSI	Over the Air Activation (OTAA)
	Activation by Personalization (ABP)	Advanced Encryption Standard (AES)
	−144 dBm sensitivity	IEEE802.15.4g

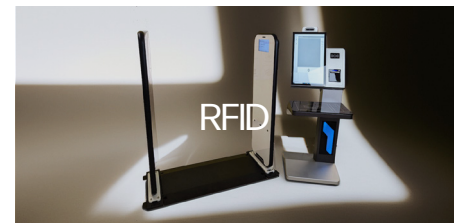| Core.BLE (optional Core.PDI)	Compliant with Bluetooth v4.2 BR/EDR and Bluetooth LE specifications
	NZIF receiver with −94 dBm Bluetooth LE sensitivity
	Adaptive Frequency Hopping (AFH)
	Bluetooth 4.2 BR/EDR and Bluetooth LE dual mode controller
	Multi-connections in Classic Bluetooth and Bluetooth LE
	Simultaneous advertising and scanning

SMAVOO *Solutions*

Hybrid Tracking

Hybrid indoor and outdoor tracking means none of your assets go AWOL on our watch. Our smart trackers give you a real-tme overview over your assets, and seamlessly move from outdoor to indoor. Our RFID solutions make sure you always know what's there - even with tricky interferences or metal parts.
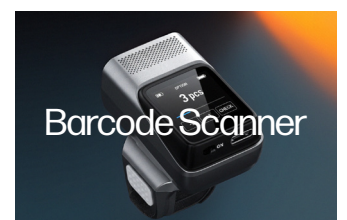

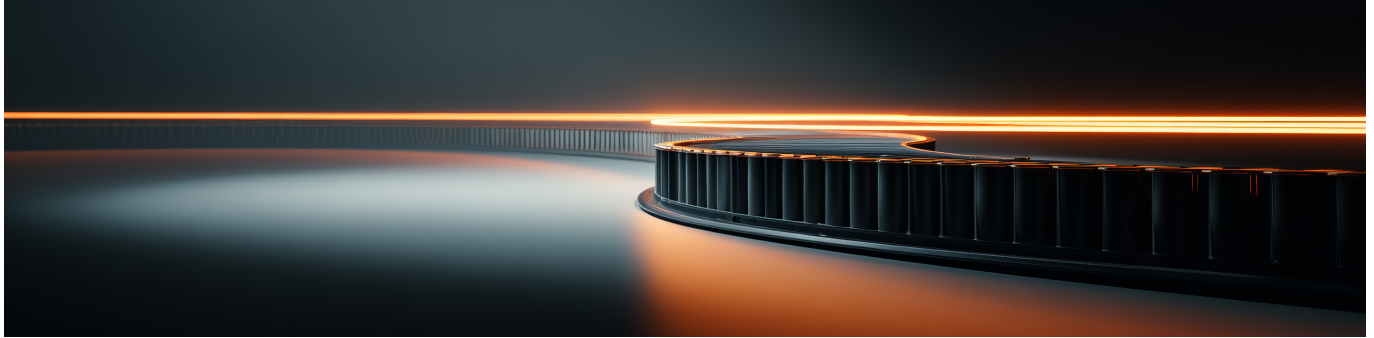GPS Tracker

Indoor Tracker

RFID

Smart Picking

Smart picking guides your workers from A to B - and our solutions are there to make sure every pick is the right one. From saving paper by replacing picklists with our EPD Tablets, handsfree Barcode-Scanners or our range of smar labels for KLTs and GLTs - we're always there to make sure the process flows just as intended.

Indoor Tracker

7.5 Double Label

Tablet 11.6

Barcode Scanner

Subject to errors and
technical changes

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30966 Hemmingen

Phone: +49 5363 94824 99
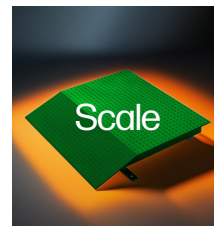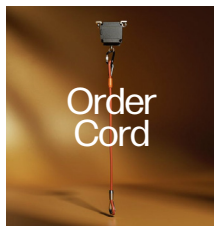E-Mail: info@smavoo.com
www.smavoo.com

Smart Reordering & eKanban

With our range of automatic and semi-automatic line feeding solutions, we make sure your line never stops. From Distance Sensors to Switches and Scales that detect when material levels are below a certain threshold to Order Cords and Reorder-Buttons: We make sure everything arrives on time, every time.

Indoor Tracker

Order Cord

Switch
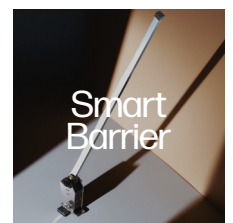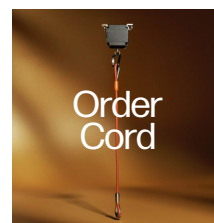
Trolley

Scale

Distance

AGV/AMR Sensors

Our range of AGV/AMR sensors make sure your indoor transport is always perfectly coordinated and safe. With light-guided systems, AGV Buzzers and Smart Barriers, your existing fleet always finds its way through your warehouse - and if you're still looking for an AGV fleet, we've got you covered with our models as well.
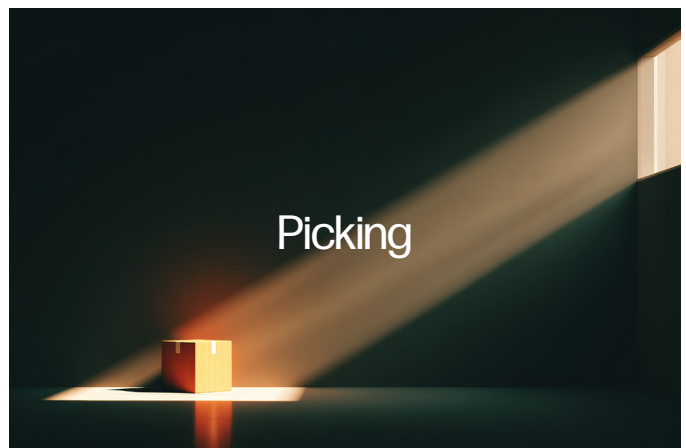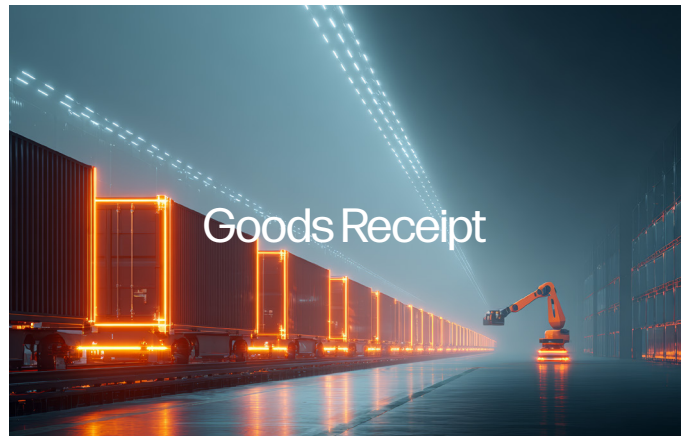

Lightcube

Lighttube

Distance

AGV / AMR Button

Order Cord

Smart Barrier

About SMAVOO

At SMAVOO, we believe in all-in-one-solutions: Hardware, Software & Service. We specialize in Industrial IoT (IIoT) solutions for production and logistics. Our expertise spans RFID technology, sensor networks, and software development with the goal of creating modular systems that make operations efficient, transparent, and error-free. Our customized solutions help companies digitalize their processes and make smarter decisions through real-time tracking across all modern workflows.

Material Flow

Inbound

Goods Receipt

Warehouse

Picking

Transport

Production

We're not here to bulldoze your workflow: Keep what works, ditch what doesn't. We plug in, make it smarter, and let you scale or pivot without rewriting your playbook. And because we're logistics people too, we know the pain of endless integration projects. We've been there, done that, and built something better: Fast rollouts, real support, and partnerships that don't vanish after go-live. Our track record? Industry leaders trust us to keep them ahead - because we deliver the goods, not just the sales pitch.

Smart, Seamless and Scalable. Or *Simply SMAVOO.*

Contact Us

Excited about the future? So are we, and we look forward to optimizing your processes together. Whether you're interested in a demo setup or just a casual introduction, you can reach us here.

General Enquiries

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