Description

The SMAVOO 2.9 Label is a smart display solution. The EPD visualization can be dynamically changed, and the display refreshes in under one second. Equipped with an optional ultra-low power chip, it can be awakened by radio signals. The display is ideal for KLT shelves or small boxes. Additionally, its hybrid communication options (WiFi & LoRaWAN) provide flexible connectivity for various industrial environments.
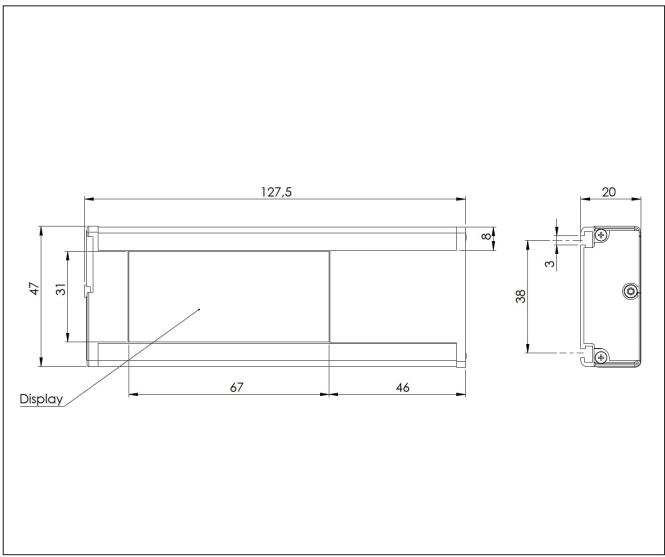
Key Features

01. Customizable Display Design, Fast Refresh Under One Second

02. Ultra Low Power, Long Runtime

03. Compact, Durable, Built to Last

04. Built-In One.Core Connector for New Features

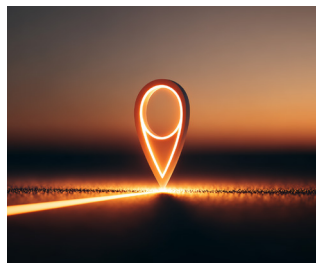| Enclosure	Dimensions	127,5 mm x 47 mm x 20 mm
	Material & Color	Aluminium, ABS, black
	Installation	Wall mounting, 3M tape or screws, 4x M2.5 T-slot rail
Power Management	Power Supply	3x AAA batteries
	Lifetime	Up to 4 years with three refreshes per day
Temperature Regulations	Operating Temperature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

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.
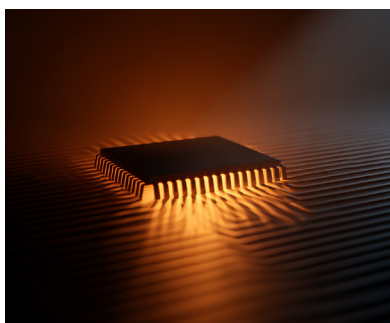
ONE.CORE Key Features

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	

S SMAVOO

Subject to errors and
technical changes

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