



Wings Connect 1.0

This multifunctional and durable device is engineered to effortlessly integrate different industrial systems and devices, facilitating efficient data exchange and management. Equipped with a high-performance CPU, generous memory capacity, and comprehensive protocol compatibility, it acts as a dependable link between diverse IoT ecosystems.

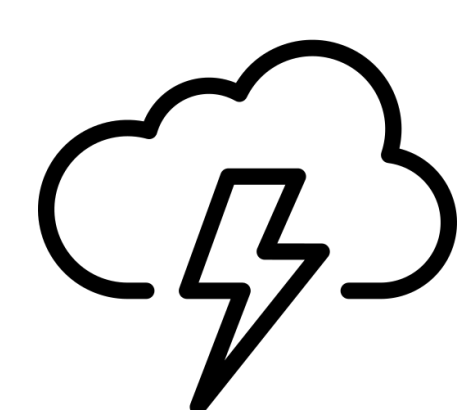
CERTIFIED
ISO 9001
ISO 14001
ISO 45001
ISO 50001



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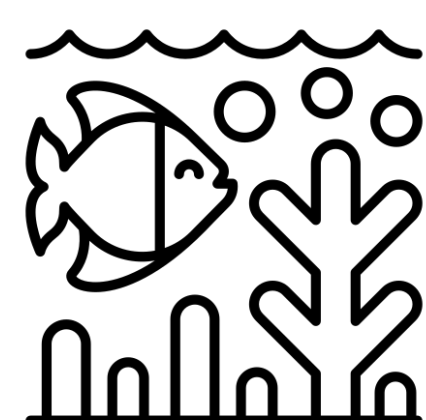


APPLICATIONS



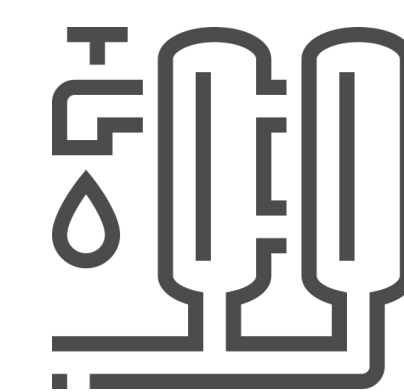
Storm Water Drainage

Supports structures, channels and pipes that carry stormwater (rain water) to ponds, lakes, streams and rivers.



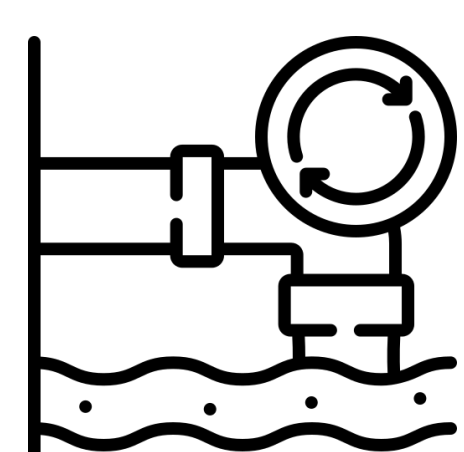
Irrigation and Aquaculture

Used for irrigation and aquaculture ecosystems. Environmentally-friendly.



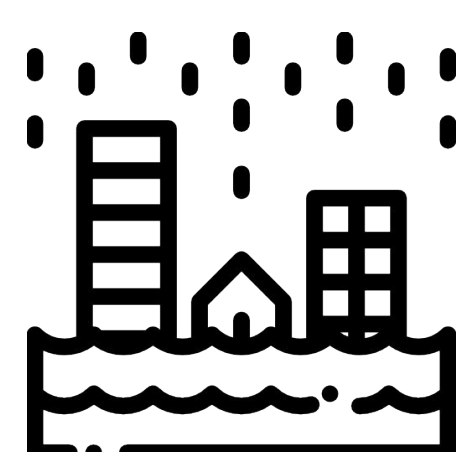
Raw Water and Processed Water

Supports raw water intakes and applicable intakes for water treatment plants.



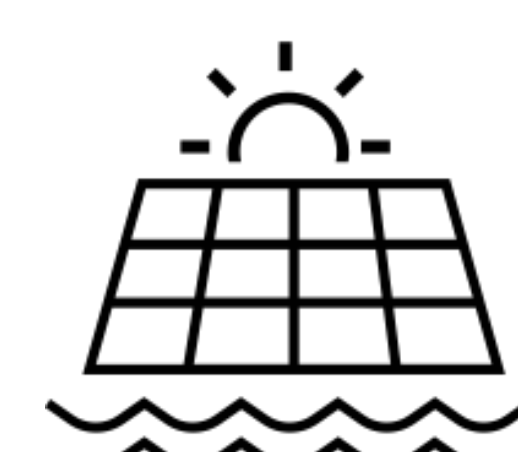
Sewage and Recirculation Sludge

Designed to move the thickest mixtures and pass large pieces of debris without damage or wear on the pump.



Municipality

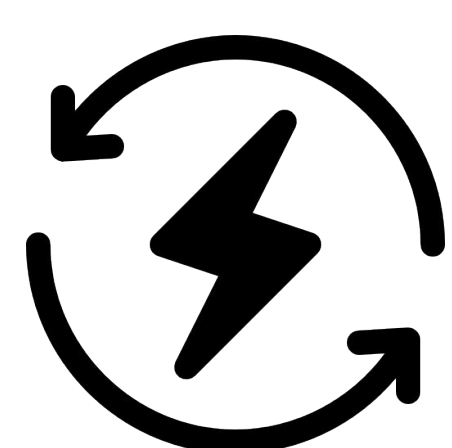
Well-Integrated with municipality work and projects with high requirements.



Renewable Energy

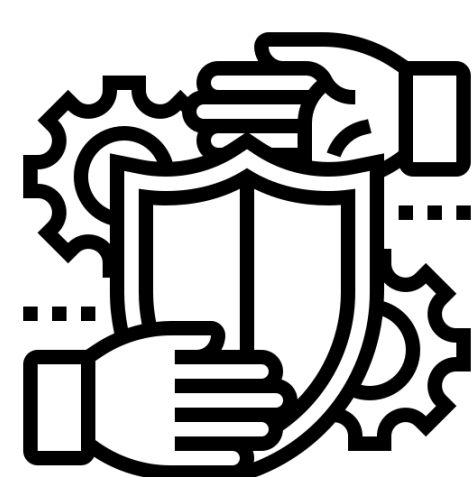
can be used with solar cells for sustainable energy with smart device that properly manage the process and prevent pump damage.

KEY BENEFITS



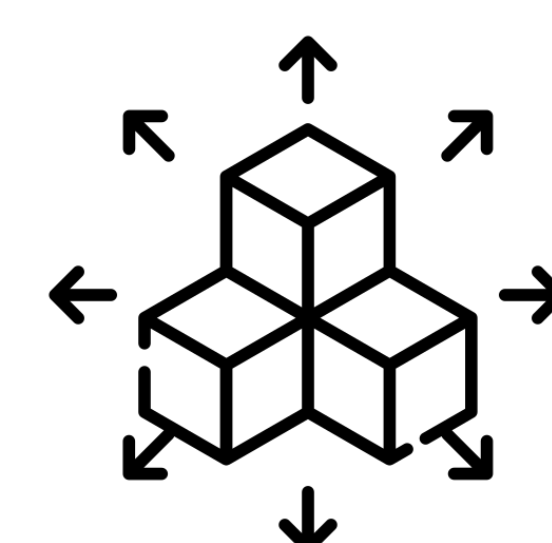
Better Power Consumption

Save more power with Premium Efficiency Motors.



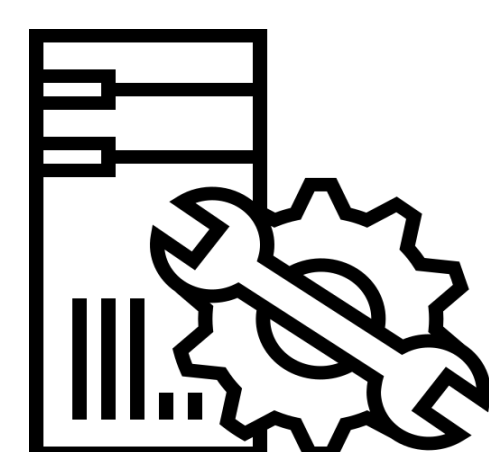
Stability and Reliability

Wings Pumps’ advanced engineering provides better stability and reliability.



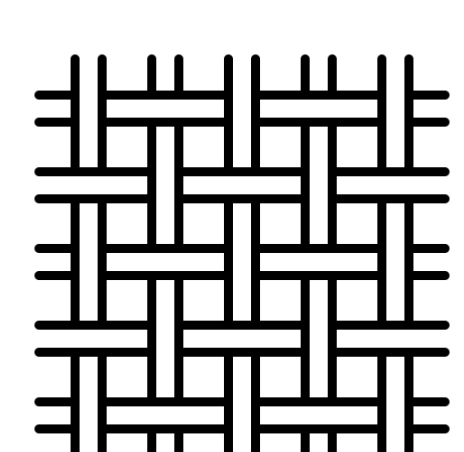
Wide Range of Operations

Wings Pumps are more versatile and can be used in a wide variety of operations.



High Flexibility in Installations

Wings Pumps can be installed perfectly in various situations and setups.



Flexibility in Material

Customize pumps with various material and composites to better suit your operations.

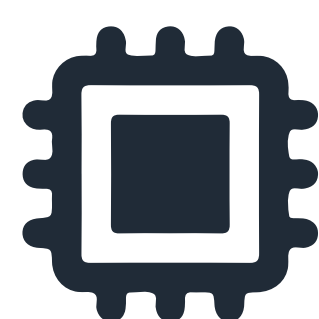


Internet of things

Through the cloud network system, the system organizes data and keeps tabs on the pump's operational state. User can be real-time observation possible.

FEATURES AND BENEFITS

Our new-generation IoT ecosystems from *Wings Pumps* provides high reliability, reduced installation and maintenance costs, with a longer lifetime.



CPU
Quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz, ensuring smooth processing of data streams.



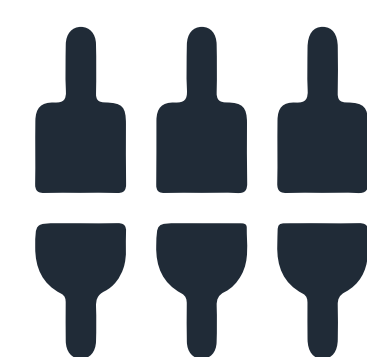
MEMORY
Up to 8 GB RAM for efficient multitasking and data handling.



STORAGE
Up to 32 GB storage, providing ample space for data storage and system files.

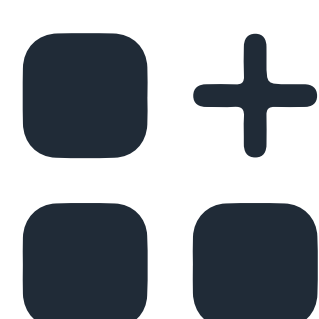


PROTOCOL SUPPORT
Extensive protocol support including TCP/IP, Modbus, OPC UA, and MQTT, facilitating seamless integration with various industrial protocols.



INPUT/OUTPUT ADD-ONS

- Various interface add-ons including RJ45, HDMI 2.0, USB ports, and serial ports RS485/232 for versatile connectivity options.
- Extend I/O card.
- GPS



OTHER FEATURES

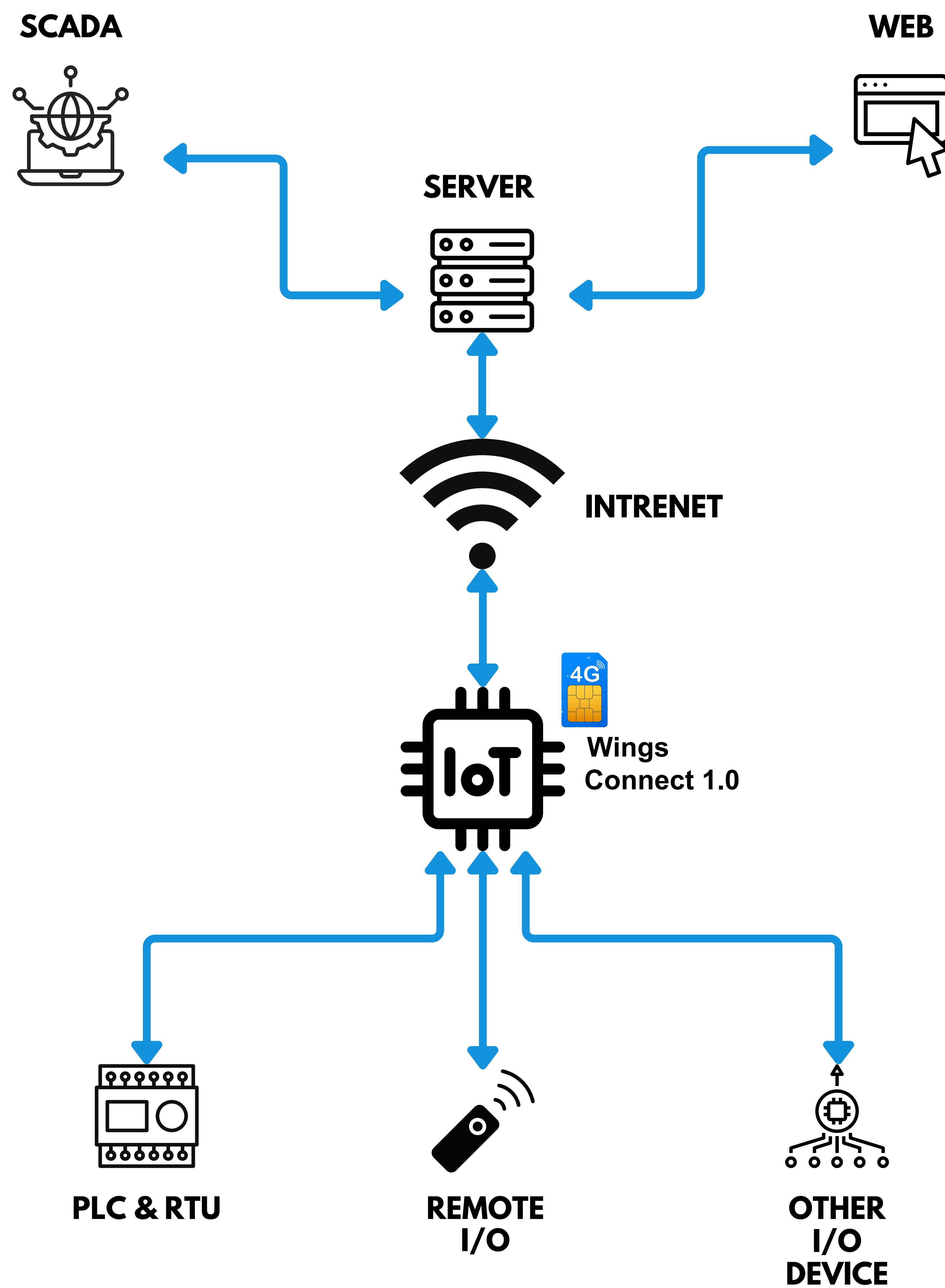
- RTC and watchdog timer ensuring accurate timekeeping and system reliability.
- Wide operating temperature range of 0-60 degrees
- Celsius, suitable for harsh industrial environments.
- MQTT protocol support for efficient messaging between IoT devices.
- Optional add-ons for hardware management, software update management, and status monitoring tool support for streamlined device management.
- Optional add-ons including built-in UPS, encryption chip, power and connection LED status indicators, and surge protector, enhancing device resilience and security.



ENCLOSURE

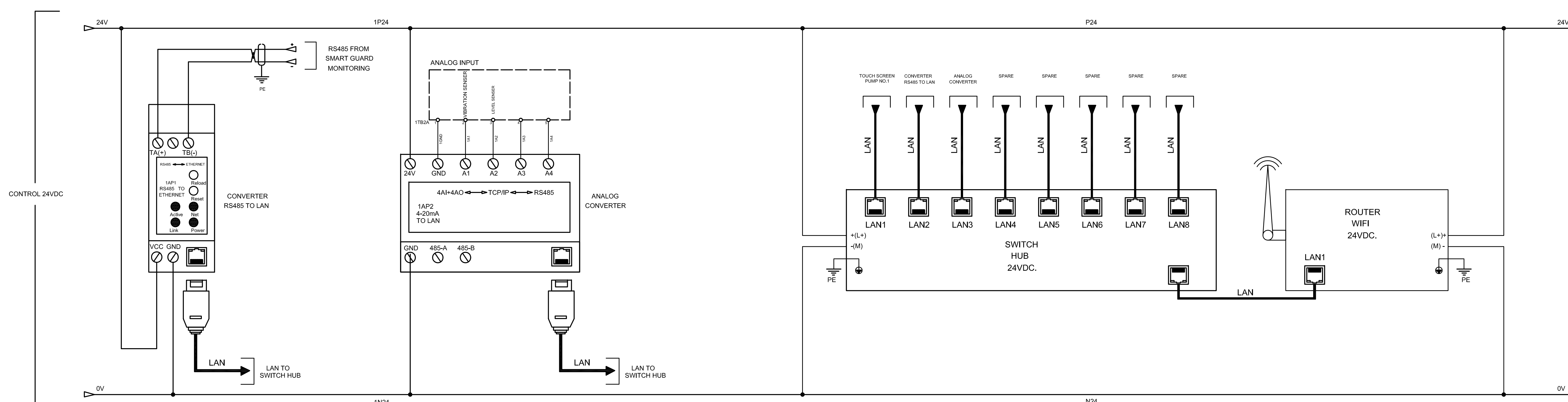
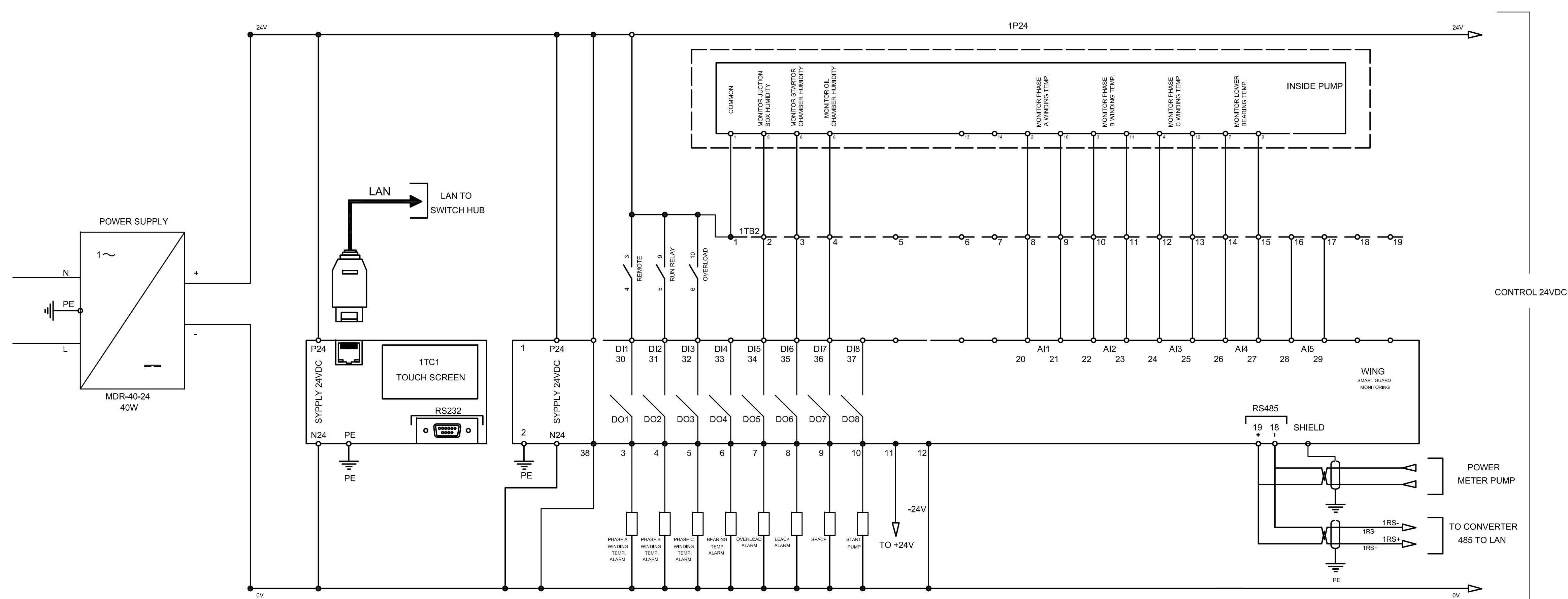
CPU	Quad core running up to 1.5GHz, 64bit
MEMORY	up to 8GB RAM
STORAGE	up to 32GB eMMC / SSD
PROTOCOL SUPPORT	TCP/IP Modbus OPC UA MQTT GPS
COMMUNICATION	Built-in 2.4G/5G Wi-Fi IEEE 802.11 b/g/n/ac BLE5.0 Bluetooth 5.0 Gigabit Ethernet/1000BASE-T \ One Mini PCIe slot support for LTE LoRaWAN / Zigbee or etc.*
INPUT / OUTPUT OS	2DI, 2DO Linux support
INTERFACE	1x RJ45 10/100M/1000M HDMI 2.0 Up to 3 x USB Serial port RS485/232 Antenna socket support M.2 2242 socket support
OTHERS	RTC Watchdog timer 12 - 24Vdc support 0-60 Celsius operation temperature Power and Connection LED status
OPTIONAL	
Hardware	Encryption chip Configuration/Data transfer cable
Outdoor Enclosure	UV-Resistant Plastic or Aluminum
Management	OTA Monitoring Remote access

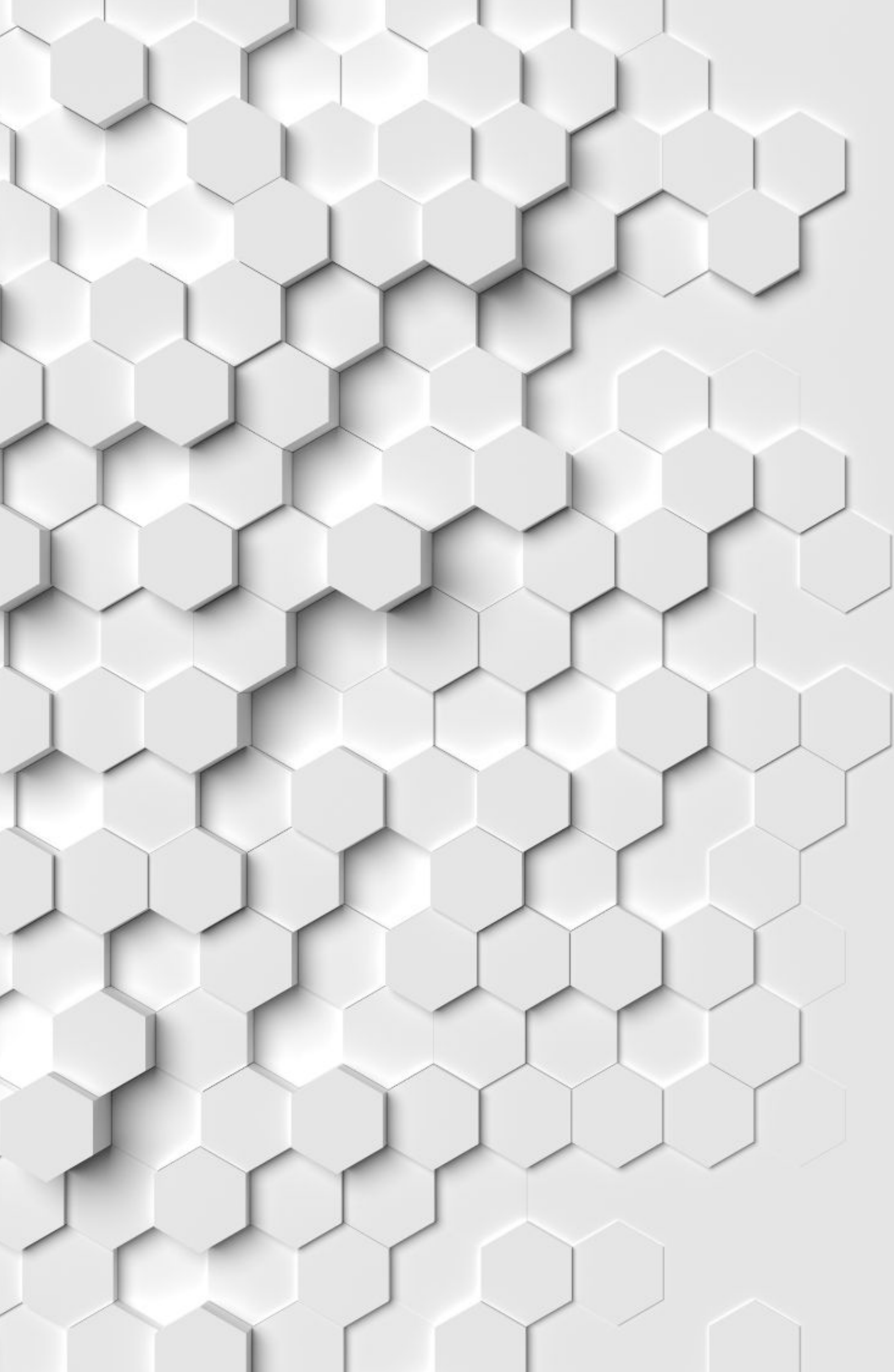
DIAGRAM WINGS CONNECT



DRAWING DIAGRAM

WINGS CONNECT 1.0 AND WINGS SGM 2.0





wings
P U M P S

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