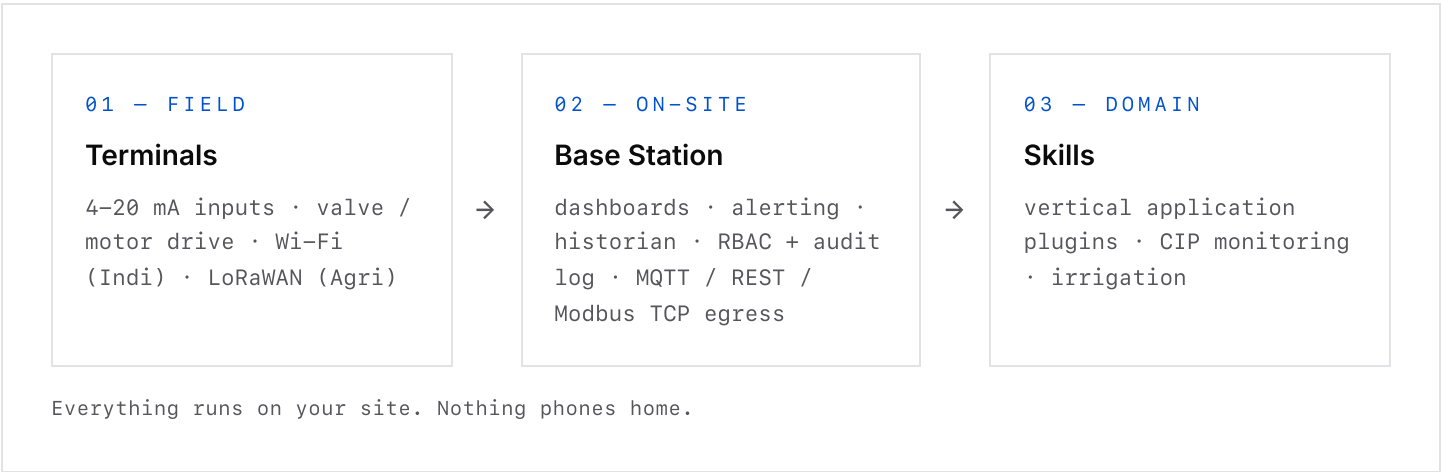


Modulink is self-hosted wireless SCADA — deployed in days, running entirely on your site.

Sensors and valves to a control room you own. No cloud dependency. No carrier fees. No integrator quote.

In production at Falcon Water Technologies since 2025.

ARCHITECTURE — THREE LAYERS



Terminals

Field I/O. Read sensors, drive valves and motors. Wi-Fi (Indi) or LoRaWAN (Agri).

Base Station

On-site ARM64 server. Runs the whole stack — dashboards, alerting, historian, RBAC, audit log.

Skills

Paid vertical plugins. The domain logic — CIP monitoring, irrigation intelligence — lives here.

HARDWARE

Terminal Indi Industrial · Wi-Fi / LAN		\$500
INPUTS	2× 4–20 mA	
ACTUATION	H-bridge — valve / speed / relay	
POWER	9–36 V DC	

NETWORK	On-site Wi-Fi / LAN · no SIM · no cloud
COMMISSIONING	Captive portal – connects like a printer
COMPUTE	On-device container runtime
SHIPPED · IN PRODUCTION	

Terminal Agri Agricultural · LoRaWAN (US915)		\$500
SENSING	3× soil-tension (Irrometer Watermark)	
	1× soil temperature	
ACTUATION	1× latching-valve drive	
RANGE	5 km open air / 1 km indoor	
BATTERY	~5 yr (4× C)	
NETWORK	LoRaWAN US915 · no carrier fee	
FIRST PRODUCTION RUN SHIPPING NOW		

Base Station On-site ARM64 server		\$1,000
RUNS	Dashboards · alerting · historian	
	User accounts (RBAC) · audit log	
EGRESS	MQTT · REST API · Prometheus	
INTEGRATION	Modbus TCP at the Base Station	
UPDATES	Live via WebSocket	
HOSTING	Self-hosted · no telemetry, no phone-home	
ONE PER SITE · AIR-GAP CAPABLE		

Security: AES-128 LoRa link encryption · TLS web UI · JWT / RBAC / audit log · self-hosted, air-gap capable. Right radio for the job – LoRa for long-range low-power fields, Wi-Fi / LAN for instrumented plants.

IN PRODUCTION

Falcon Water Technologies · Conroe, TX

RO membrane-cleaning services company. Modulink monitors their cleaning skids in production since 2025.

Relationship expanded through Phase 3.

Modulink hardware is designed into Falcon's product line (OEM).

Read-only ERP integration in production.

PRICING

Terminal — Indi or Agri	\$500	One-time, per unit
Base Station	\$1,000	One-time, per site
Skills	From \$20 / Terminal / mo	Billed annually · e.g. CIP Monitoring
Services	\$200 / hr	Installation · commissioning · integration

10 Terminals + 1 Base Station = \$6,000 hardware + \$2,400/yr for one Skill. Core platform ships free with hardware; if a Skill license lapses it goes read-only, never off.

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<https://calendly.com/russsobti/modulink-intro-consultation>

Built by Sobti Enterprises.
Self-hosted. Single-tenant. No phone-home.