About Us

Makerski Solutions Private Limited aims to engage in trading and manufacturing services for providing a comprehensive range of products and services to the manufacturing sector. The business focuses on delivering high-quality materials, equipment, components and technological solutions that cater to the diverse needs of manufacturers. By staying at the forefront of technological advancements and industry best practices, **Makerski** aims to contribute to the growth and sustainability of the manufacturing sector, fostering innovation and driving economic development.

Our organizations is backed by founders who has vast experience with multi -national organizations serving various industries.

Mission
Makerski to be a trusted partner for manufacturers, helping them achieve operational excellence and remain competitive in an ever-evolving market.

Vision
To be a integrated and progressive partner amongst the manufacturing fraternity.

Values
Key Partner, Customer Centric, Integrity and Humility

Our Market Connect

MAKERSKI
Unlock Solutions

Contract Manufacturers
- EMS
- Wiring Harness

OEM
- Electronics and Electrical
- Machine Builders
- Components

Aerospace and Defence
- Avionics
- Aerostructures

Datacom

Automotive
- Alternative Energy (EV, Hydro)
- Fuel Energy
- Waterways
- Rail
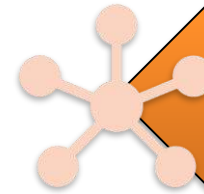
Others
- Pharmaceuticals

Product Segments

Instrumentation & Solutions	Performance Materials	Equipment	Services
HVAC Smart Solutions Water Management & Solutions Smart Electrical Management	Electronics Packaging > Labels, Cable Management, Insulation and Protection, Die-cut speciality materials.	Thermal Printers RFID Tooling	Calibration and AMC

Cable Management Solutions

HellermannTyton is a global leader in cable management and protection products, identification systems and network connectivity solutions.

Cable Tie Application Tools

Bundling & Securing
Cable Ties, Bundle Separators, Cable Tie Mounts, Ratchet Clamps
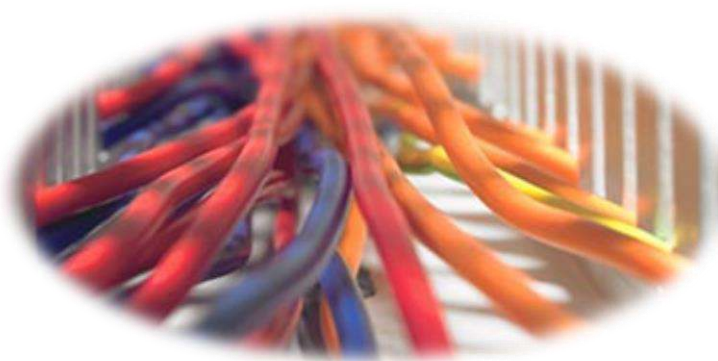Clips, Clamps

Electrical Installation
Electrical Tape
Wire Connectors
Fiber Optic Cleaning Solutions

Identification
Labels, Printing and Software.

Routing, Protection & Insulation

- Wiring Duct
- Surface Raceway
- Braided Sleeving - General Purpose
- Helawrap Protective Tubing
- Flexible Conduit and Fittings
- Spiralwrap
- Convoluted Tubing and Accessories
- Grommet Edging
- Heat Shrink Tubing
- Heat Shrink Molded Shapes
- Solar Metal Hangers

Cable Sleeving Solutions

Techflex is a global leader in Sleeving – Insulation, Termination and Bundling, Lacing Tapes.

**HeatShrink Sleeving
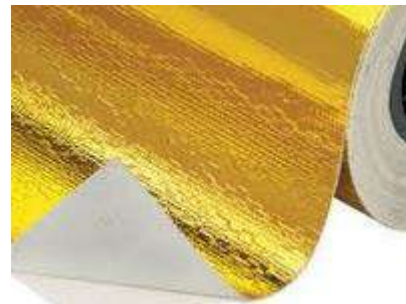Poyolefin, PTFE, Kynar..)**

FLEXO® Wrap

**FLEXO® F6
Braided Tube Sleeving**

**FLEXO®
PET Sleeving**

Flexo® Noise Reduction

**Techflex®
Gold Heat Reflective Foil**

**Techflex® Insultherm®
Header Exhaust Braided Cable V**

Thermal Printers

cab is Europe's leading manufacturer of devices and systems labeling on components, products and packaging. - Made in Germany

MAKERSKI
Unlock Solutions

cab
we identify more

Specialties

Product marking, label printers, print and apply systems, laser marking, labeling software, label dispensers, labels, and ribbons

EOS2/EOS5
for desktop applications

Particularly for very small labels and slim continuous materials

SQUIX applicators

XD Q
Double Side Printer

Labelling

Supply of complete solutions that identify and protect people, products and places.

1. **PCB Labels**
2. **Wiring Harness ID : Heat Shrink Sleeves, Adhesive Labels**
3. **Panel ID**
4. **Pre- Printed Markers and Labels**

Outdoor Resistant

Chemical Resistant

Abrasion Resistant

High Performance Materials

MAKERSKI
Unlock Solutions

Inspect and Measure

Advanced 3D morphology measurement solutions and technologies.

Specialties

High-precision 3D measurement products

Semiconductors

PCB
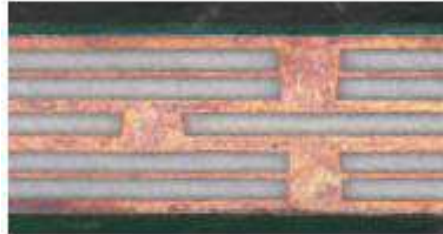
Product Offerings

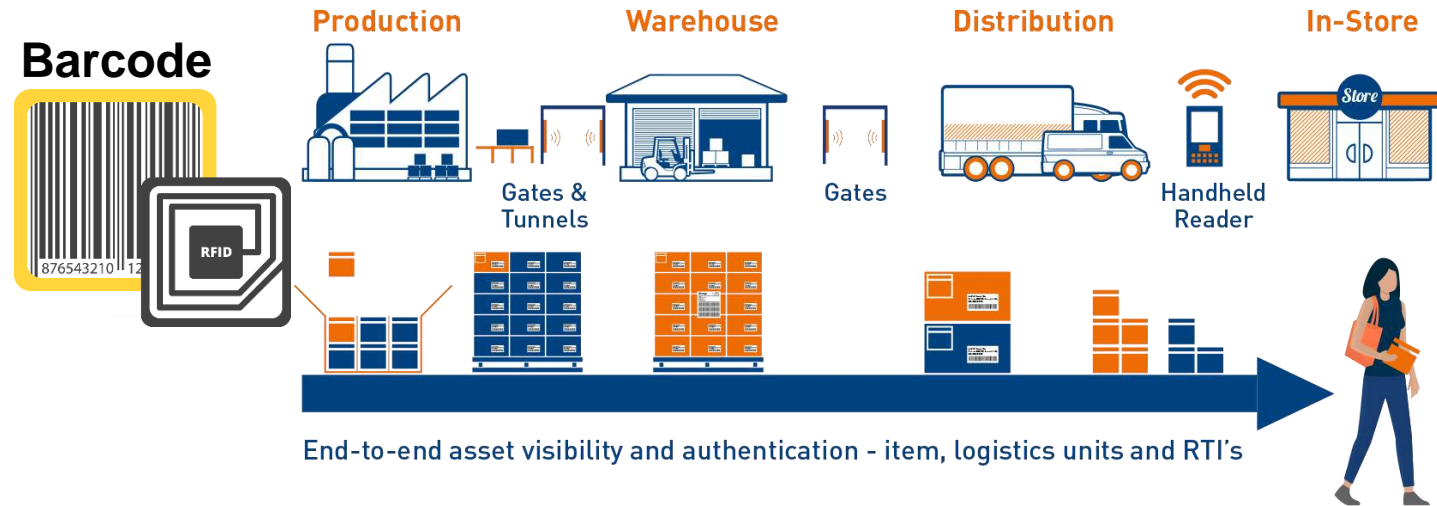| |
|---|
| 1.White Light Interferometer **3D profiler** |
| Measurement System |
| 3D line laser measuring instrument |
| Spectral confocal **displacement sensor** |
| **Film Thickness Gauge** |
| **Wafer** 3D Automated **Inspection** Equipment |
| Diffractive Three-Dimensional Profiler |

Track n Trace - Traceability

MAKERSKI
Unlock Solutions

TURN KEY SOLUTIONS

Asset Tracking

Floor Tool Tracking

Machine Tool Automation

AGV Tracking

People Tracking

Automatic PLC Linked Machine Program Operation

Barcode

876543210 12

RFID

Production   **Warehouse**   **Distribution**   **In-Store**

Store

Gates & Tunnels   Gates   Handheld Reader

End-to-end asset visibility and authentication - item, logistics units and RTI's

Device Management
+
RTLS Infrastructure

Inspection
+
Stocktaking

Products
+
Assets

Industrial Solutions

Industry Pain Points

For Commercial/Industrial building owners-operators

What

Lack of unified platform for all your systems across buildings to make intelligent & energy-efficient decisions to achieve lower operational cost, reduced carbon footprint, and minimal down time while improving occupant comfort.

Why

Buildings account for 40% of all national energy consumption. While there has been significant advancements in efficient automation hardware, not much has been done on software and data-driven approaches to save energy.
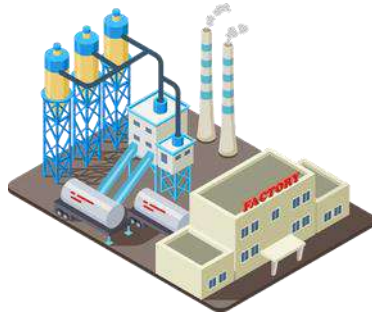
How

Using the Internet of Things(IoT), Big Data, AI and Machine Learning, we harness the power of cloud and pack it into smart devices & software that address the pain points of building owners.
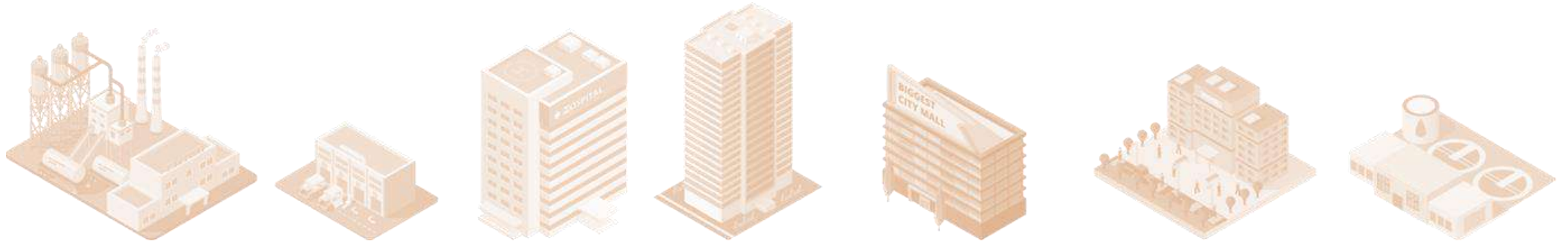
The Solution

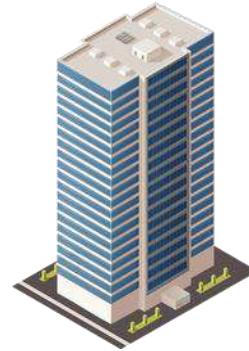**We "Makerski" are a deep-tech AIoT based solution provider for new-age property management**

Manufacturing Sector	Warehousing	Hospitals	Commercial Real Estate	Shopping & Entertainment Complexes	Hospitality and Wellness	WTP / STP / ETP across a city

Indigenous IoT Hardware & Solutions Ecosystem

In-house Manufacturing Capabilities

Proprietary, reliable & proven AIoT Platform

Multiple customers across industry verticals in India

MAKERSKI
Unlock Solutions

Maximizing Comfort, Minimizing Energy
AI-Powered HVAC Optimization (CPM, DDC Panels)

Defeat Sick Building Syndrome, Purify Air
IAQ Monitoring and Air Quality Control with Ionizers

Real-Time Weather Data, Smart Operations
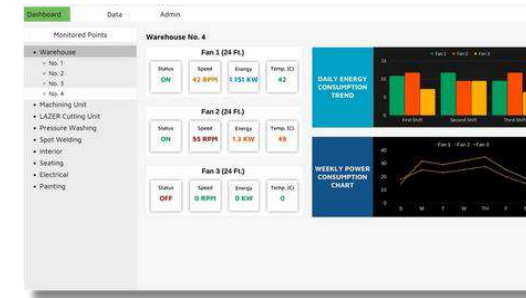Weather and Outdoor Air Monitoring Solutions

Smarter Buildings, Real-Time Control
IoT-Based Smart Building Analytics Dashboard

Empowering Smarter Energy Decisions
Energy Monitoring for Equipment and Electrical Systems

Optimize Water, Conserve Resources
Water Quality Monitoring and Control Solutions

The Platform

Hierarchy based Dashboards

Customized Reporting Multilevel Alerts

Alert notification on Emails/WhatsApp

Real-time Notifications and Device Control

Product & Service Management

Rule Creation & Processing

Real-time Data Stream Processing

Devices

Processes

EDGE ON PREMISE

CLOUD

BUSINESS LOGIC

BUSINESS INTELLIGENCE

AIoT

MONITORING & CONTROLLING

Smart Business Solution

- ☑ Efficient, intelligent operations
- ☑ Real-time data on mission-critical systems New business models
- ☑ & Revenue streams Increased customer
- ☑ loyalty

Analytics, Visualization

Discovery & Control

Business Intelligence

Real-time & Big Data

Framework

Subject Matter Expert Advisory

AI/ML Learning Layer on top of Cloud Platform

ModBus Gateway

AIoT Cloud Platform

AIoT

Only Monitoring

MAKERSKI

Smart Controller

Optimization and Control Layer

Closed-loop monitoring and controlling system

Building Automation System

Equipment Management Suite

Sensing & Intelligence Layer

Equipment, Electromechanical and Device Layer
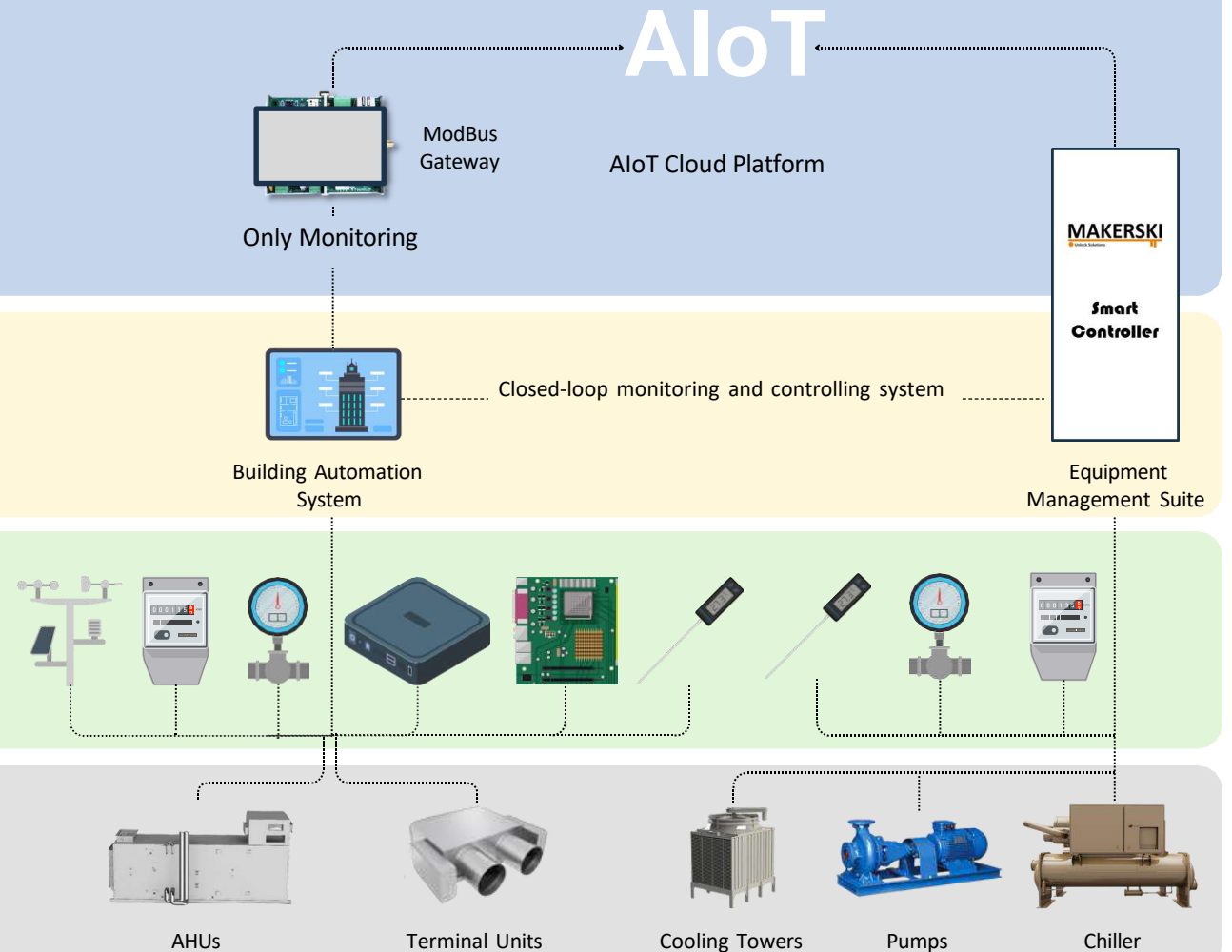
AHUs

Terminal Units

Cooling Towers

Pumps

Chiller

HVAC Smart Solution

Air Quality Monitoring

MAKERSKI
Unlock Solutions

Data syncs with HIVE cloud app

MAKERSKI
Unlock Solutions

Smart Controller

ATMOS WMS WEATHER MONITORING SYSTEM

Temperature
Humidity
Air pressure
Wind speed
Wind direction

HIVE
ATMOS

ATMOS OAQ MONITORING SYSTEM

Temperature
Humidity
PM10.0
PM2.5
CO
CO_2

ATMOS IAQ MONITORING SYSTEM

Temperature
Humidity
CO_2
CO
O_3
PM10.0
PM2.5
PM1
TVOCs
NO_2
SO_2
Formaldehyde
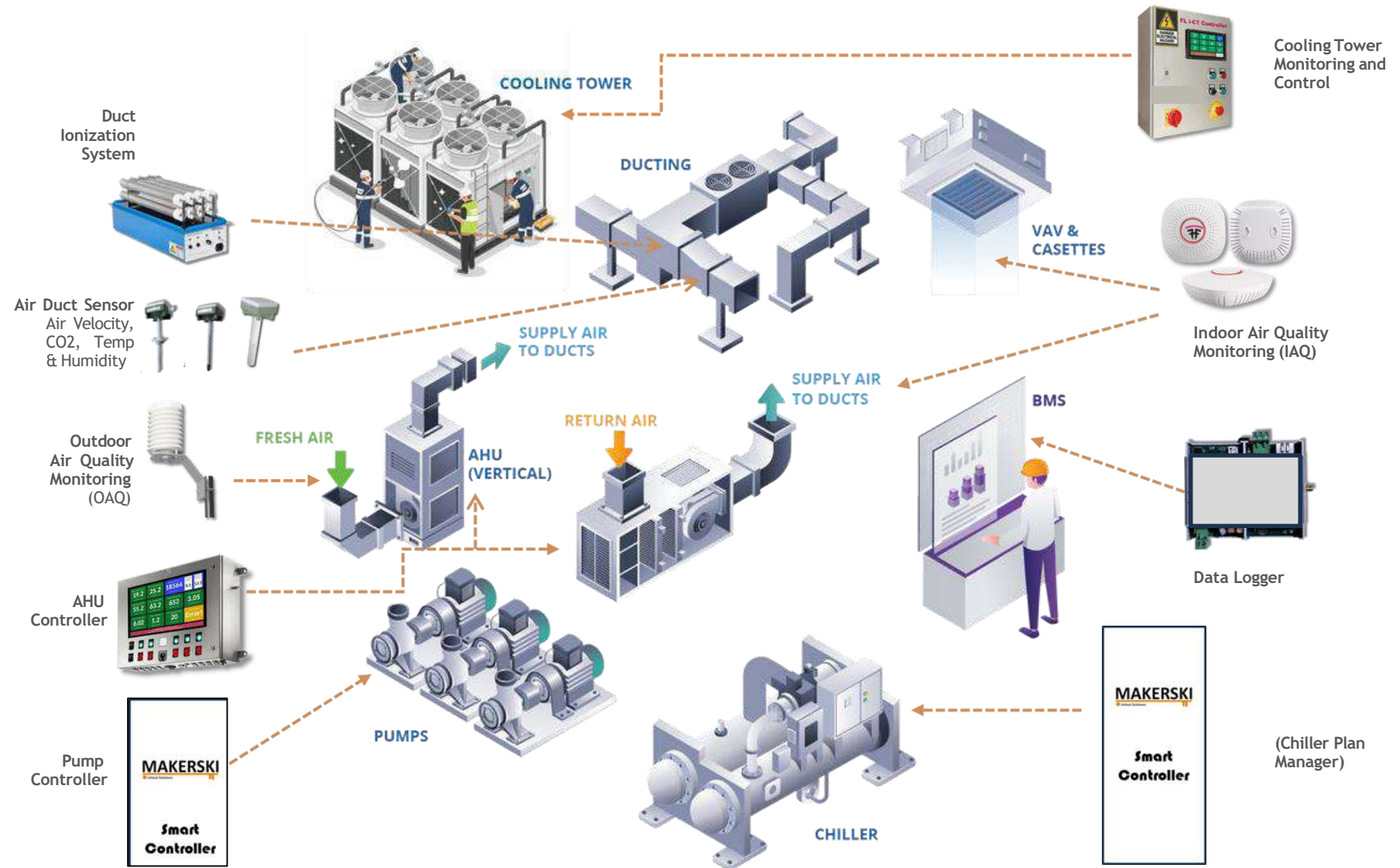
SMART Water Management

In a commercial or Industrial Complex

Water Instrumentation

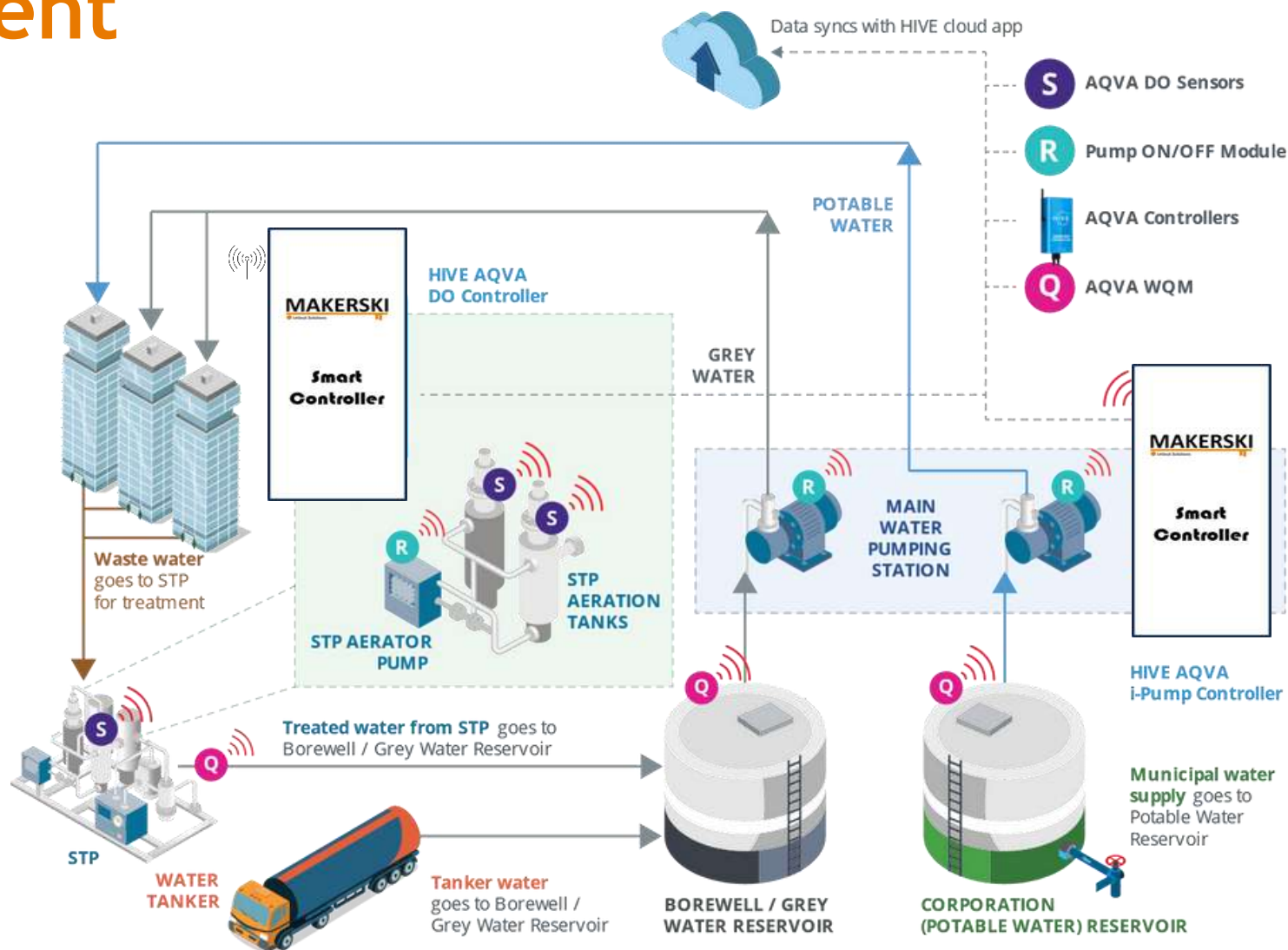Potable & Grey Water Management and Control Suite Solutions

Water Level Sensor for monitoring levels in Reservoirs, Borewells and Tanks

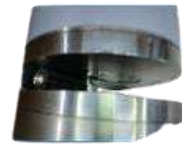Syncs with AQVA iPump Controller for automated water supply start or stop

LEVEL & PRESSURE MONITORING

pH Sensor for pH monitoring across all water sources

Self-cleaning Sensor for DO, COD, BOD, TSS Monitoring across all water sources

AQVA WQM Module 24x7 Online Water Quality Monitoring for STP, Tanks, Borewells, and other sources

WATER QUALITY MONITORING

Intelligent Flowmeter for real-time monitoring of water supply / consumption

Motorized Valve Module for real-time control of water supply - in closed circuit relay with flowmeter

SUPPLY / CONSUMPTION MONITORING

AQVA DO Controller for aerator pump control of STP, to maintain optimal DO levels

AQVA iPump Controller to control tank overflows and avoid dry runs of pumps

PUMP / MOTOR CONTROL

Intelligent Energy Management

HIVE Platform

Data syncs with HIVE cloud app

METER MONITORING

24x7 online module that monitors energy consumption via custom configurations to connect with existing meters and communicate with the InSitez AIOT cloud app
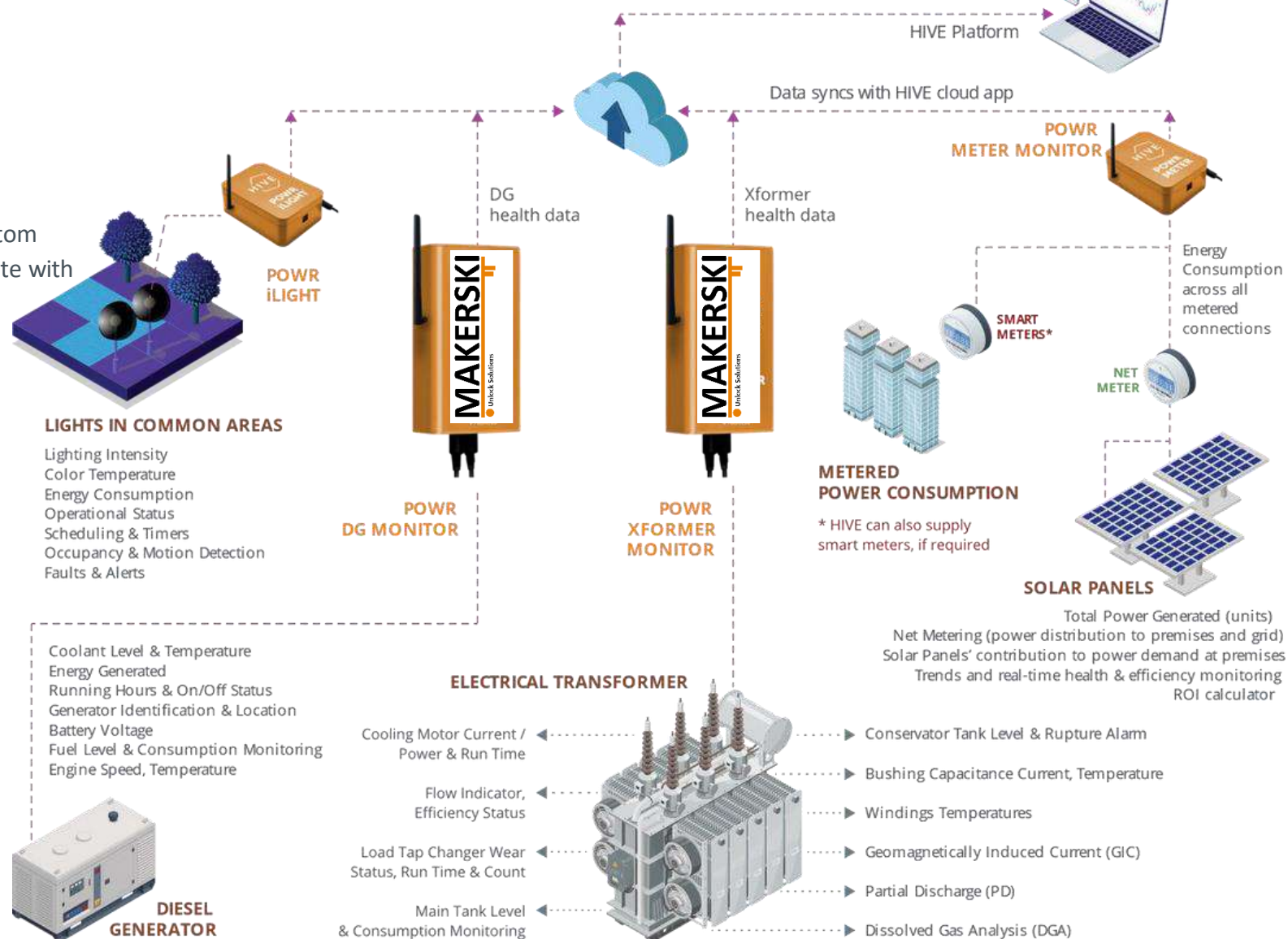
DG MONITORING

24x7 online Diesel Generator Monitoring System with customizable thresholds based on recommended limits for precision alerts
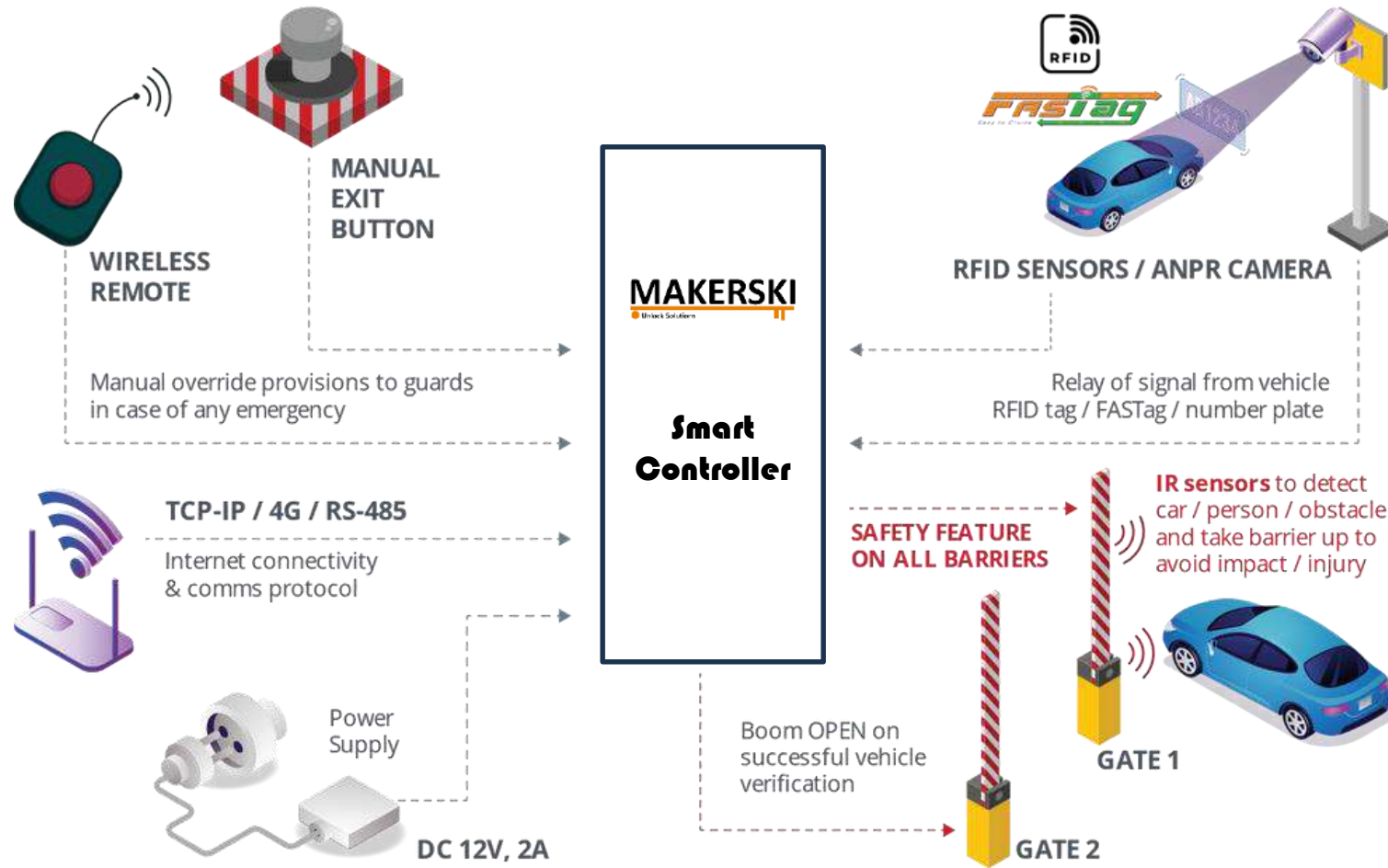
TRANSFORMER MONITORING

24x7 online Electric Transformer Monitoring System with customizable thresholds based on recommended limits for precision alerts

LIGHTS

24x7 online system allows for easy adjustment of brightness levels, personalized lighting scenes, and intelligent scheduling. Compatibility with smart home systems allows for seamless integration, effortless customization and energy efficiency.

POWR iLIGHT

DG health data

Xformer health data

POWR METER MONITOR

Energy Consumption across all metered connections

SMART METERS*

NET METER

LIGHTS IN COMMON AREAS

Lighting Intensity
Color Temperature
Energy Consumption
Operational Status
Scheduling & Timers
Occupancy & Motion Detection
Faults & Alerts

MAKERSKI
Unlock Solutions

MAKERSKI
Unlock Solutions

POWR DG MONITOR

POWR XFORMER MONITOR

METERED POWER CONSUMPTION

* HIVE can also supply smart meters, if required

SOLAR PANELS

Total Power Generated (units)
Net Metering (power distribution to premises and grid)
Solar Panels' contribution to power demand at premises
Trends and real-time health & efficiency monitoring
ROI calculator

Coolant Level & Temperature
Energy Generated
Running Hours & On/Off Status
Generator Identification & Location
Battery Voltage
Fuel Level & Consumption Monitoring
Engine Speed, Temperature

ELECTRICAL TRANSFORMER

Cooling Motor Current / Power & Run Time

Flow Indicator, Efficiency Status

Load Tap Changer Wear Status, Run Time & Count

Main Tank Level & Consumption Monitoring

Conservator Tank Level & Rupture Alarm

Bushing Capacitance Current, Temperature

Windings Temperatures

Geomagnetically Induced Current (GIC)

Partial Discharge (PD)

Dissolved Gas Analysis (DGA)

DIESEL GENERATOR

Gate Access Control System

Design and Training Consultancy

•5G System Development

Design and implement FPGA-based 5G transceiver systems focusing on high-speed data processing, low latency, and massive MIMO configurations. Develop PHY layer solutions, including OFDM modulation/demodulation and beamforming, for next-generation 5G networks.

High-Performance Transceivers

Build customizable FPGA-based transceiver systems for satellite communication, optical networks, and wireless communication. Integrate advanced error correction (LDPC) and modulation techniques to ensure robust communication.

Video Processing on FPGA

Develop FPGA-based solutions for real-time video encoding, decoding, and streaming applications, supporting standards like H.265 and VP9.Design hardware accelerators for image processing tasks, including object detection, noise reduction, and frame interpolation.

Skill Development and Training

Offer specialized training programs on FPGA-based 5G systems, transceivers, and video processing applications. Provide hands-on experience with high-speed protocols, video codecs, and advanced FPGA design methodologies.
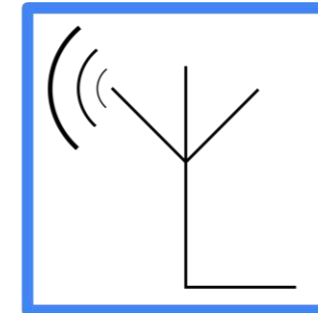
Collaborative R&D and Commercialization

Collaborate with industry leaders to innovate and commercialize FPGA-based solutions for communication and video processing.Create a product pipeline for industries, ranging from telecom and broadcasting to defense and surveillance.
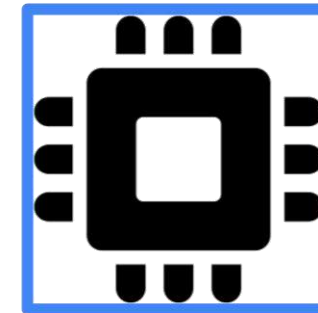
SATCOM Solutions
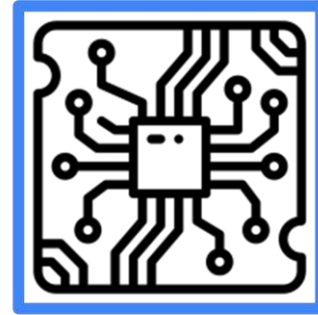
Chip Designing

RF Antenna Design

FPGA Intelligent Solutions

Contact Us

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