

FOR A SMART, SECURE & CONNECTED INDUSTRIAL WORLD

I-RAY

An Industrial IoT Device



Production line
remote monitoring



Unified factory-wide
interconnectivity



Predictive maintenance



Failure migration
and safety control



Remote device
configuration and tuning



I - RAY



Workforce Tracking



Cloud-based data storage
and analytics



centralized config
data updates

I-Ray integration



Description

The Industrial Internet of Things is a strategic priority for manufacturing companies as it allows them to give more value to their customers as well as improve cost-efficiency of their internal operations. Enabled with IoT, separate parts of a production line communicate with each other in near real time through standard Industrial interfaces and makes the entire manufacturing process much easier to monitor and control. It widely utilizes modern sensor technology to enhance different types of equipment with remote monitoring and maintenance capabilities.

Digital Shark Technology introduces an Industrial IOT device RAY - I, which can shield industrial systems from downtime by detecting the earliest signs of malfunction and preventing their aggravation. RAY-I being connected to the machines via Standard Interfaces or IoT sensors into industrial systems, allows operators to know what's going on with the equipment in near real-time, and with high accuracy. The captured data will provide you with an in-detail reporting over the equipment status, performance, security, and so on. Using the collected data, problems can be predicted and can prevent systems going down.

With RAY - I, every single machine can be transparent to your eye.

Dashboard & Reports



Our Dashboard provides at-a-glance views of key performance indicators (KPIs) relevant to that industry or business process.

Our manufacturing dashboard will show numbers related to productivity such as number of parts manufactured, or number of failed quality inspections per hour. Similarly, different crucial parameters can be displayed and also can be customized as per industries requirement.

Our Reports present adequate information on various aspects of the production machines such as Down time, Production Count, Job Details, Worker details and many such parameters will be generated and alerts are sent to the concerned authority.

Benefits to the End Customer



Production line
remote monitoring

I-RAY empowers industries for optimal use of energy.

I-RAY increases asset utilization and Overall Equipment Effectiveness.



Reduced Downtime



Predictive
maintenance

Keeps machines up and running and minimize the risk of costly downtime.



Higher Product
Quality

I-RAY has the ability to minimize quality-control issues and cut down the rejection ratio.



Secured data
monitoring

I-RAY detects and helps to resolve device malfunctions and bottlenecks.



Factory-wide
performance analytics

I-RAY provides actionable insights to optimize all phases of production process.



Workforce Tracking

I-RAY maps the data of the operators and their productivity.



Remote device
configuration and tuning

Device Management made Easy.



Smart alerts
and notifications

Tracks actionable metrics. Big impact, low effort.

“A device which brings transparency across all lines, materials, resources and processes”

Product Specification

CPU		CONNECTIVITY	
CPU Name	NXP/ Freescale i.MX6	USB Host / Device	USB 2.0 : 1x Host, 1x OTG
CPU	Type Cortex™-A9 MPCore™	UART	Yes, up to 5 Mbps
CPU Cores	2 Cores	Line in/Out	Yes
CPU Clock(Max)	1GHz0	CAN Bus	Yes
MEMORY		RS 485	
RAM	512MB DDR3	RS 232	
SLC NAND	128MB SLC NAND	Ethernet	10/100/1000 Mbps
SD / MMC	32GB	Wi-Fi	Certified 802.11 a/b/g/n + MIMO
eMMC	8GB	Bluetooth	4.1 + CSA2 Support/BLE
MULTIMEDIA		ELECTRONIC	
Camera Interfaces	1x CSI, 1x CPI	Supply Voltage	3.3V
DISPLAY		Digital I/O Voltage	3.3V
HDMI	v1.4 1920 x 1080	Battery Capacity (mAh)	5200
Touch Screen	7" Capacitive	ENVIRONMENTAL	
AUDIO		Commercial Operating Temperature	0 to 70°C
Line In/Out	Yes	Extended Operating Temperature	-20 to 70°C
PHYSICAL		Industrial Operating Temperature	-40 to 85°C
Dimensions (W x L x H)	234 x 174 x 88 mm	Storage Temperature	-40 to 85°C
Weight	498 gm	Storage Humidity	5% to 95%

*“A smart factory solution that will facilitate you
to exploit the benefits of digitization”*

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