



DISCOVER THE HIDDEN POTENTIAL

# SOLUTION OVERVIEW



# DIGITIZE YOUR PRODUCTION WITH DIAP



## COMPLETE IIOT SOLUTION

DIAP is an industrial IoT solution designed to help manufacturing companies digitize production by collecting, analyzing and visualizing production data.

In contrast to many similar products, DIAP offers a complete solution integrating both hardware, software and cloud storage.

This means that you do not need any other device or software. Everything is included in DIAP.

## HIGHLY COMPATIBLE

DIAP is compatible with all PLCs, sensors and industrial robots, and it can be deployed in any type of manufacturing environment regardless of size, age or industry.

Once installed, the DIAP gateway collects production data and sends the data to a secure cloud storage.

By means of the DIAP software applications, the collected data is analyzed and visualized using a normal web browser.

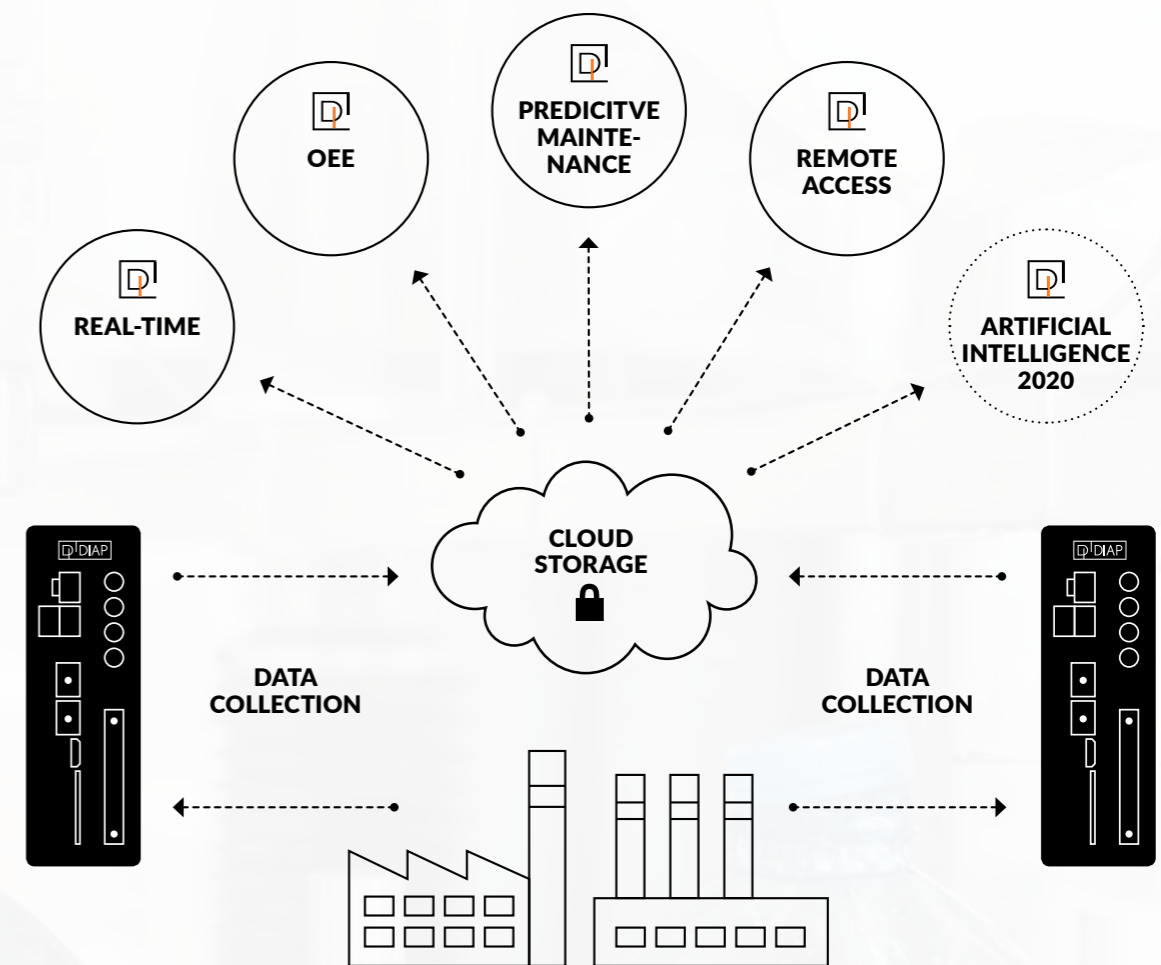
## SECURITY FIRST

Collecting valuable production data and sending it to a cloud storage places high demands on data security.

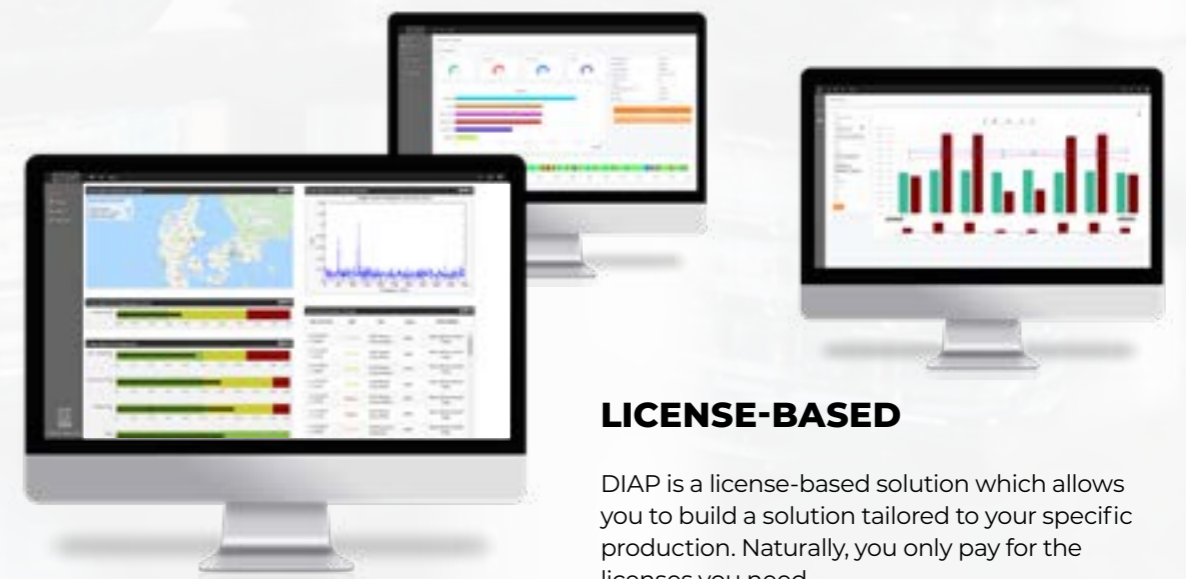
This is why DIAP is equipped with multi-level information security. Communication is performed using the highest security standards available, and the DIAP software is updated on a regular basis to protect against the latest threats.

Each user has unique and protected access.

# DIAP APPLICATIONS



## BUILD YOUR OWN SOLUTION



## LICENSE-BASED

DIAP is a license-based solution which allows you to build a solution tailored to your specific production. Naturally, you only pay for the licenses you need.

# SPECIFICATIONS

## POWER SUPPLY

Input voltage	24 VDC (18-30 VDC)
Power consumption	20 Watts max
Consumption (rated)	600 mA at 24 VDC
Consumption, max	850 mA at 24 VDC

## COMPUTING AND STORAGE

Processor	i.MX6 Quad 800 mHz
System memory	2 GB DDR3 RAM
Internal hard disk	120 GB SSD
uSD	1 slot

## ETHERNET

No. of ports	1 (2)
Transmission rate	10/100/1000 Mbit/s

## OTHER BUSES

CAN	2 ports
RS485	1 port
USB	2 ports (standard 2.0)
I2C	1 port

## WI-FI

Certified	FCC, ETSI, TELEC
IEE standard	802.11a/802.11b/802.11g/802.11n
Operation frequency	2.4 GHz, 5 GHz
External antenna	Yes

## BLUETOOTH

Compliance	Bluetooth 4.1
Bluetooth LE support	Yes
External antenna	Yes

## PLC SCAN RATE

Scan rate	Every 100 ms
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## DIGITAL INPUTS & OUTPUTS

No. of inputs	8
Input voltage, rated	24 VDC
Input voltage "0"	<7.8 VDC
Input voltage "1"	>12 VDC
No. of outputs	2
Output voltage "1"	24 VDC
Output voltage "0"	0 VDC
Current limit	600 mA

## ANALOG INPUTS

No. of inputs	4
Input range	4-20 mA (0-20 mA)
Input resistance	250 ohm
Resolution	12 bit
Sampling time	1 ms

## ENVIRONMENTAL

Operating temp.	0 to +60 degrees Celcius
Storage temp.	-40 to +80 degrees Celcius
Relative humidity	95% non-condensing
Altitude	Up to 2000 m
Protection marking	IP20

## CELLULAR DATA

4G	800/900/1800/2100/2600 MHz
3G	900/2100 MHz
2G	900/1800 MHz

GSM module according to European standards. Module can be changed, if required.

## DIMENSIONS

Height	185 mm
Width	53 mm
Depth	128 mm
Standard weight	700 g

## HOW DOES IT WORK?

\* Also compatible with other communications standards such as:  
Modbus / Profinet / OPC-UA / CAN-bus

