INVT IoT Product Catalog

/ **Contents**

Corporate Introduction

INVT (Shenzhen INVT Electric Co., Ltd) has been concentrating on industry automation and energy power since its foundation in 2002 and is committed to "Providing the best product and service to allow customers more competitiveness". INVT goes public in 2010 and is the first A-share listed company (002334) in Shenzhen Stock Exchange in the industry. At present, INVT owns 15 subsidiaries and more than 4000 employees, over 40 branches, forming a sales network covering more than 100 overseas countries and regions.

INVT has been awarded as the Key High-tech Enterprise of National Torch Plan based on mastering of key technologies in power electronics, auto control and IT. With business covering industry automation, electric vehicle, network power and rail transit, INVT has established 11 R&D centers nationwide, boasts more than 1300 patents and owns the first lab in the industry awarded ACT qualification from TÜV SÜD, UL-WTDP and CNAS National Lab. The industrial parks in Shenzhen and Suzhou aim to provide customers with advanced integrated product development design management, comprehensive product R&D test and auto informational production. The worldwide INVT branches and warranty service centers are ready to offer customers all-around back-ups including professional solutions, technical trainings and service support.

In the next decade, INVT will continue to take " Honesty and Integrity, Professionalism and Excellence" as our business philosophy, enhance core business sectors including industrial automation, electric vehicle, network power and rail transit based on the three major technologies in industry automation and energy power fields, and strive to become a leading, responsible and harmonic international professional group armed with proper product structure, leading technologies, efficient management, robust profitability and superior competitiveness.

Industrial Park in Suzhou

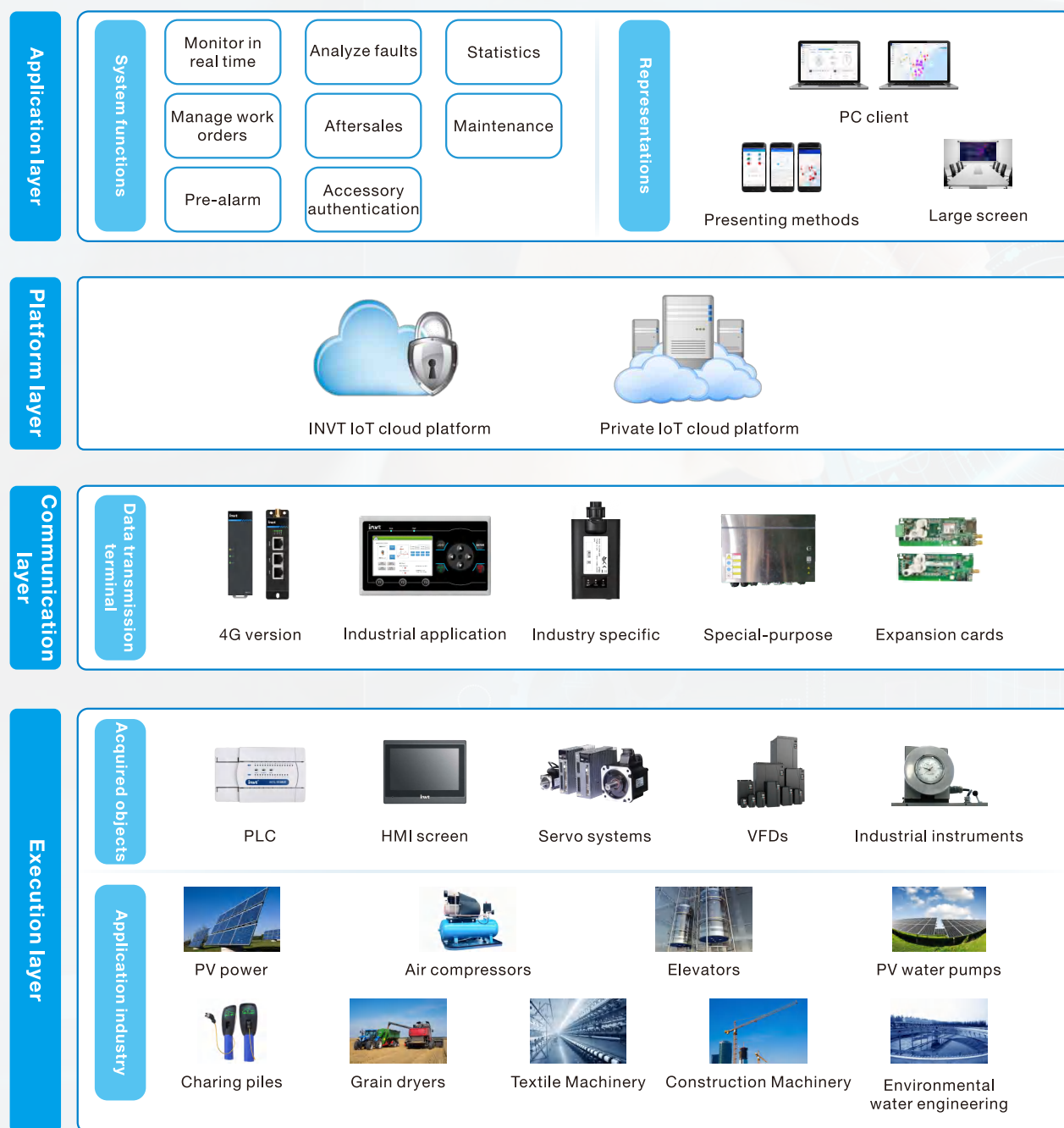Group's core industrial base and R&D center in East China

Industrial Park in Guangming Shenzhen

Group headquarters, new product development and new business incubation base

Industrial Internet solutions

INVT independently develops and boasts industrial Internet products, including IWOCloud industrial Internet cloud platform, IWOScence application system, IWOLink data terminal products, and ICS industrial cloud services, which can work with INVT industrial automation family of products to provide end-to-end integrated solutions for industrial customers, helping them to move towards a new journey of digital transformation.

Application layer

System functions

Monitor in real time	Analyze faults	Statistics
Manage work orders	Aftersales	Maintenance
Pre-alarm	Accessory authentication	

Representations

PC client

Presenting methods

Large screen

Platform layer

INVT IoT cloud platform

Private IoT cloud platform

Communication layer

Data transmission terminal

| 4G version | Industrial application | Industry specific | Special-purpose | Expansion cards |

Execution layer

Acquired objects

| PLC | HMI screen | Servo systems | VFDs | Industrial instruments |

Application industry

| PV power | Air compressors | Elevators | PV water pumps |
| Charing piles | Grain dryers | Textile Machinery | Construction Machinery | Environmental water engineering |

IWoScience is an IoT monitoring system that can be remotely managed, maintained, analyzed, and monitored. It supports universal access from devices such as VFDs, servos, PLCs, and HMIs, and it can be appliedto PCs and Android and iOS mobile clients.

Aftersales assistant tool to resolve problems remotely and effectively.

· **Remote working unit**

Remote upgrade without site service

Enables you to upload, download,and monitor programs to remote devices, including PLCs, VFDs, and data terminal modules.
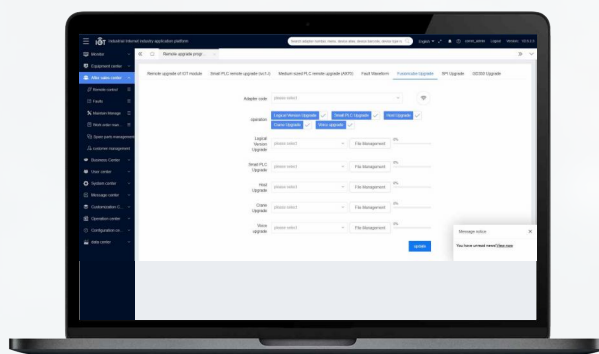
· **Aftersales work order management**

Online handing of aftersales service

Able to transfer aftersales work orders such as fault handling, installation, and maintenance, with the entire process from the handling to the result under surveillance, improving the efficiency of aftersales maintenance work, enhancing user experience and corporate image.
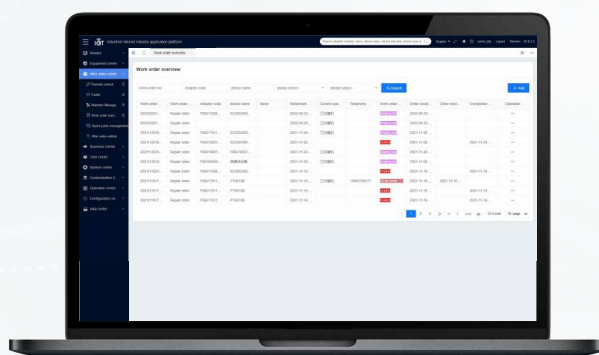
Financial leasing management tool, supporting new business development.

A set of device leasing service functions supports leasing business development, such as managing parts, projects, contracts, reports, and flows.
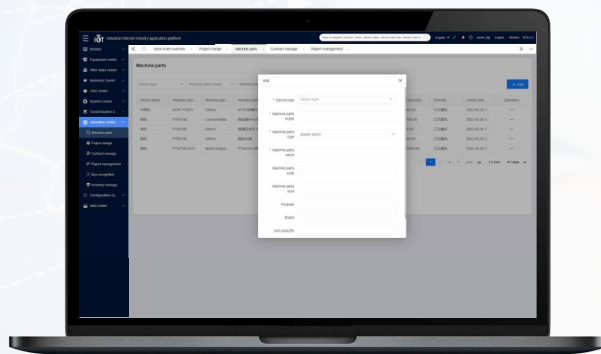
· **Device operation management**

Device leasing management tool

The tool already has many mature applications such as contract management, payment collection management, electronic fencing, spares management, remote device locking, and flow approval management.

Passive service changed to active service.

· **Fault pre-alarm/alarm**

Electronic guard, protecting device safety in real time

The system provides instant feedback on all the alarm and pushes alarm information by means of app, SMS messages, and emails. Prealarm values can be set for important parameters of key devices, preventing accidents in advance.
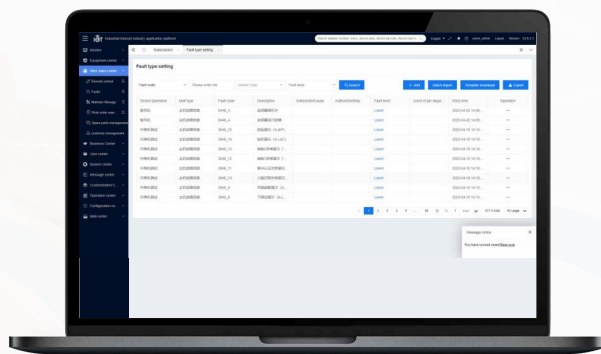
It provides a set of aftersales maintenance functions, improving maintenance efficiency, including managing faults, warranty, work orders, and spares.

· **Preventive device maintenance**

Passive aftersales service becomes active service

Such as device lifetime prediction, key part preventive cleaning, warranty parts lifecycle management, and device exception pre-alarm.

A new trend—Device networking.

It provides a set of various device monitoring functions, such as real-time monitoring for device safe running purposes, monitoring of device operation efficiency and energy efficiency, and large-screen monitoring.

· Remote device monitoring

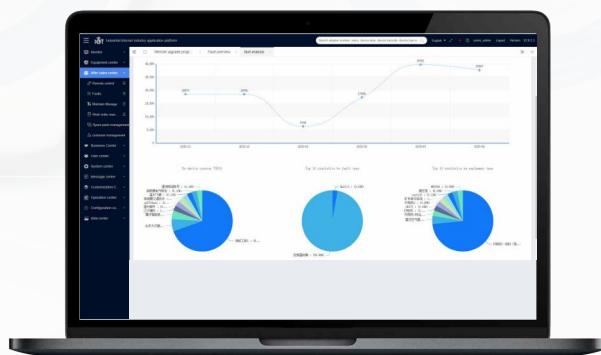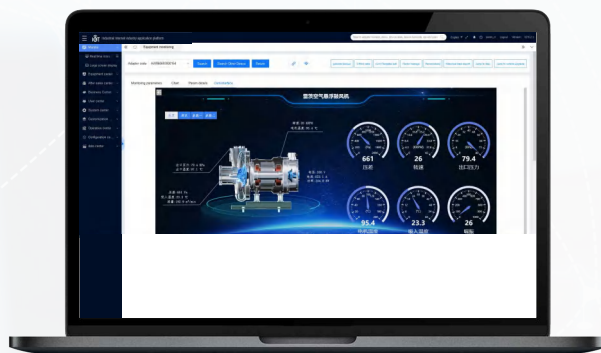**Managing anywhere anytime**

Various ways such as mobile app, PC web page, and large-screen monitoring help to understand device real-time status, and implement video monitoring, remote start or stop, and parameter modifying.

Foundation of data value digging in the era of big data.

It provides a set of system operation and daily platform management functions, which meet system management requirements, such as managing system setup, operation records, user data statistics, and corporate dynamics.

· Historic data query

Dimensional data applications

Able to define key parameter types, addresses, charts, and faults.The user-defined data charts can be displayed, and historic data can be exported to various files and saved to the local server.

· Data analysis and statistics

Providing objective data support for fault analysis

You can define to generate various statistics reports for historic data, facilitating data analysis and application in various views. You can collect data on various parameter evaluation and make analysis, providing objective data support for R&D, aftersales, and sales to make decisions.
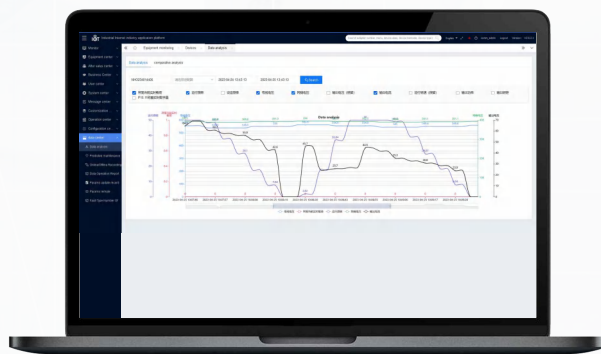
System features

INVT provides industrial enterprises with complete, reliable, flexible, and quick-deliverable solutions.

Pan-access

Supporting various VFDs, servo, PLC, and HMI screens.

Quick start

Easy to operate and user friendly interface

Multiple presenting

Supporting PC and mobile app (on Android and iOS)

Personalized customization

Application system functions can be customized

Privatization deployment

The system cloud platform supports privatization deployment

Data analysis

Historic data, condition collection, and data reports

Safe and stable

Supporting the pushing by means of mobile app, email, and SMS message

Alarm pushing

Data is encrypted before transmission, and servers are managed in distributed mode

Multimedia access

Supporting onsite video, image, and interface access, and AI recognition of face.

Data interface

The platform provides the API, eliminating data silos

Multiple login ways

You can visit https://iot.invt.com to enter the login page

You can log in through the mobile app

Large-screen application

Customized large-screen display can be applied to system data,
which can be planned as follows:
· Macro data: Device distribution map, online/fault/alarm device distribution
· System key statistics: Device status statistics and work order quantity
display

IWOLink data terminal product

To adapt to data acquiring requirements of various industrial devices and network scenarios flexibly, INVT launches data acquiring product series to provide quick, easy, and safe IoT data connection solutions.

ICA 417 series

Excellent performance

Edge computing, transparent VPN transmission, remote OTA, the same as local operation.

4G flagship version

ICA413 series

Strong adaptation

A device supports many scenario applications. (Serial port to 4G; serial port to network port, network port to 4G)

4G standard version | 4G vigor version

ICA100 series

WiFi version

Supporting connection to WiFi.

WiFi version

ICA200 series

Ultimate costeffectiveness

Customizable, supporting remote monitoring/upgrade.

2G version

EC-IC series

Perfect matching

Embedded with such a card, a traditional device upgrades with IoT functions.

Expansion card version

Model description

INVT ICA series product model description:

I C A * * * – * * * – * *

Field description	Content
Product series abbreviation	ICA: Internet Communication Adapter
Wireless communication method	0: Not support wireless communication 1: WiFi 2: GPRS 4: 4G
Wired communication method	0: Not support wired communication 1: Ethernet
Local data collection method	0: Rs485 1: Ethernet 3: RS485+Ethernet 7: RS485+Ethernet+VPN
Data flow card	0: Pluggable 1: SMD 2: Pluggable + Carried
IP rating	0: IP00 (No housing) 1: IP20 (Housing for wall mounting) 2: IP20 (Housing for rail mounting) 6: IP65 (Housing for push-in mounting)
Special functions	G: With GPS N: Embedded with antenna P: Configured with display This feild is omitted by default, which means no special function
Voltage class	5: 4.5–6V. The standard configured voltage is 12–24V. This field is omitted
Version	CN: China version EU: Europ version LA: Latin America version This field is omitted for a 2G/WiFi product

Technical specifications

Data terminal product	ICA100-02	ICA200-00HP	ICA200-00HN	ICA200-00GHP	ICA200-02
Ordering code	11095-00008	34008-00130	34008-00126	34008-00131	11023-00091
Product positioning	**WiFi version**	**2G vigor version**			**2G standard version**
Communication parameters					
Upstream networking	WiFi	2G			
Upstream network speed	54Mbps	15-20Kbs			
Downstream communication	RS485/232	RS485/232			
Downstream network speed	10Mbps	85.6Kbps			
Hardware parameters					
IP rating	IP20	IP00			IP20
Power supply voltage	10~24V				
Overall power consumption	2W				
Indicator	Power indicator, network status indicator, and run status indicator				
Mounting method	Standard DIN rail mounting				
Work temperature	-25~65℃				
International version	-	Universal			
Antenna	External		Embedded	External	
Housing material	Engineering plastic	No housing		Aluminium alloy	
Software functions					
Real-time data monitoring	Support				
Edge computing	Support				
OTA remote upgrade	Not support	Support VFD upgrade (GD270/GD350 based special purpose products)			
Serial port transparent transmission	Not support	Support			
Network port VPN transparent transmission	Not support				

Data terminal product	ICA413-02-CN	ICA400-02-CN	ICA417-02-CN	ICA417-12-CN	EC-IC501-1	EC-IC501-2	EC-IC502-2-CN
Ordering code	11095-00006	11095-00004	11095-00019	11095-00020	11023-00131	11023-00130	11095-00009
Product positioning	**4G stanard version**	**4G vigor version**	**4G flagship version**		**2G expansion card**		**4G expansion card**
Communication parameters							
Upstream networking	4G/network port	4G	4G/network port		2G		4G
Upstream network speed	5Mbps	5Mbps	50Mbps		15-20Kbs		50Mbps
Downstream communication	RS485/RS232/network port	RS485/232	RS485/RS232/network port		RS485/232		RS485/232
Downstream network speed	10Mbps		100Mbps		85.6Kbps		100Mbps
Hardware parameters							
IP rating	IP20				IP00		
Power supply voltage	10~24V						
Overall power consumption	3W		5W		2W		3W
Indicator	Power indicator, network status indicator, and run status indicator						
Mounting method	Standard DIN rail mounting				Screw		
Work temperature	-25~65℃						
International version	Support CN/EU/LA versions				Universal		Support CN/EU/LA versions
Antenna	External				Embedded	External	
Housing material	Engineering plastic		Sheet metal		-		
Software functions							
Real-time data monitoring	Support						
Edge computing	Support						
OTA remote upgrade	Support VFD upgrade (GD270/GD350 based special purpose products)						
Serial port transparent transmission	Support						
Network port VPN transparent transmission	Not support		Support		Not support		

Structure size
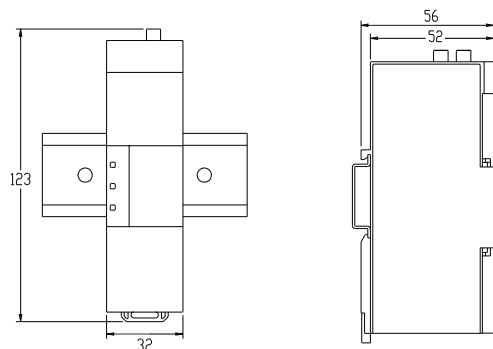
Model	Size (WxHxD) (including rail snap)	Weight (excluding antenna)
ICA413 series	32×123×56mm	55g

Positioning: Three-in-one version
    (485 to 4G/485 to network port/network port to 4G)
Features: DTU price with RTU performance
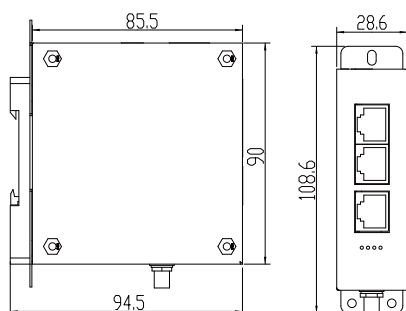
Model	Size (WxHxD) (including rail snap)	Weight (excluding antenna)
ICA417 series	28.6×108.6×94.5mm	153g

Positioning: 4G flagship version (High speed 4G cat 4 version)
Features: VPN transparent transmission, supporting remote
    commissioning
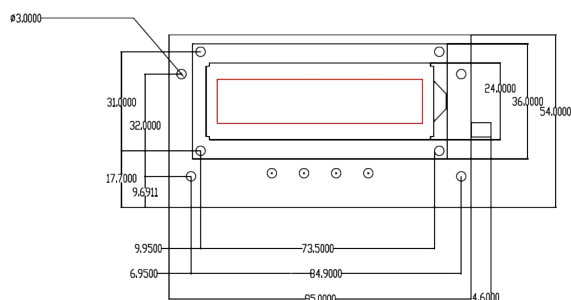
ICA200 Model	Size (WxHxD) (including rail snap)	Weight (excluding antenna)
ICA200-00HNP	95×54×10.4mm	35g
ICA200-00HN	95×54×10.4mm	12g
ICA200-00HP	99.6×54×10.4mm	36g
ICA200-00H	99.6×54×10.4mm	13g
ICA200-00GHN	95×54×10.4mm	35g
ICA200-00GH	99.5×54×10.4mm	12g

Technical characteristics

| No.	Function category	ICA413 series function description
1	Supported network	Supporting TDD-LTE, FDD LTE
		Compatible with HSPA+, EVDO, GPRS, and CDMA networks
		In the case of unstable 4G network coverage, smooth downward compatibility ensures uninterrupted data transfer
2	4G network speed	10Mbps (downstream)/ 5Mbps (upstream) @CAT1
3	Supported interface	One standard RS485 interface
		One standard RJ45 network port (10/100M)
4	Indicator	Power indicator, network status indicator, and run status indicator
5	Power range	DC 10V-24V
6	Overall power consumption	Less than 5W
7	Temperature range	-25~+75℃
8	IP rating	IP20
9	Mounting method	Din rail mounting
10	Main functions	Supporting IP and PORT client tool configuration
		Supporting ARP, Ethernet, MODBUS, MQTT and FTP protocols
		Supporting OTA remote upgrade
		Supporting remote query for system status, network connection status, and signal intensity

No.	Function category		ICA417 series product function description		
1	Supported network	Upstream	4G	LTE FDD、LTE TDD、GSM	
			WAN	10/100M self-adaptive port	
		Downstream	RS485	Modbus RTU MASTER	
			LAN	Modbus TCP CLIENT	
2	Supported interface	Commissioning port	Supporting one USB type-C commissioning port		
		Serial port	Supporting one-to-one frontend device data acquisition through RS485 communication		
		Ethernet port	Supporting three 10/100M self-adaptive ports: one WAN port and two LAN ports		
		SIM card	Supporting one pop-up SIM card holder (large)		
		Antenna	Supporting one SMA female antenna interface		
3	Indicator		Power indicator, network status indicator, run status indicator, and signal indicator		
4	Power range		DC 10V-24V		
5	Overall power consumption		Less than 5W		
6	Temperature range		-25~+65°C(-13~+149°F)		
7	IP rating		IP20 sheet metal		
8	Mounting method		DIN rail mounting and wall mounting		
9	Main functions	Remote monitoring	Supporting active acquiring 01/02/03/04 function codes, 19200 as default baud rate of serial port, even parity, automatically obtaining INVT PLC barcode and model		
			Supporting active acquiring 01/02/03/04 function codes, 192.168.1.100 as default IP address, port number 502, automatically obtaining INVT PLC barcode and model		
		Remote upgrade	Firmware upgrade: Remotely upgrading 4G data terminal application programs		
			Policy upgrade: Remotely upgrading policy files		
			Serial port: Virtual serial port transparent transmission		
			Network port: VPN transparent transmission		
		Multi-network access	4G and Ethernet		
		VPN transparent transmission	VPN transparent transmission, facilitating remote commissioning		
		4G routing	Transforming public LTE wireless networks to wired networks, providing networking for devices		
		Switch	Two LAN ports support the switch function		

No.	Function category	Specifications	ICA200 series product function description
1	Communication	Communication protocol	GPRS, IoT MQTT, PPP dialing, FTP transfer, and embedded TCP/UDP protocols
		Remote upgrade	Supporting the use of GPRS module to upgrade system and VFD programs remotely
		Communication interface	Supporting RS232 commissioning output, one-to-one frontend device data acquiring through RS485 communication, and MicroSD card data storing
			Supporting the use of external flash to store module configuration information and upgrade files (2MB)
		Parameter settings	Modbus device serial port baud rate, data bit, stop bit, and parity bit are configurable
		Software watchdog	Monitoring system run status in real time
		GPRS heartbeat mechanism	Monitoring server connection in real time
		GPRS communication command	Enhanced AT command set
2	Interface	External interface	4-pin socket (RS485, power), SIM card slot + Reserved SMD SIM card
			RS232/TTL debugging port, MicroSD card slot
			Onboard antenna + Reserved GPRS/4G external antenna design
			Button cell; reserved 2G GPS chip + GPS antenna
		Serial port	One RS232 interface and one RS485 interface, built with 15kV ESD for protection
		Indicator	SMD light-emitting diode, power indicator (red), signal indicatior (yellow), data indicator (green), and fault indicator (red)
		Antenna interface	Standard configuation: PCB embedded antenna + Reserved standard SMA female antenna interface + Reserved GPS antenna interface
		SIM/UIM card interface	Standard user card interface (compatible with SMD SIM configuration), supporting 1.8V/3V SIM/UIM card, built with 15kV ESD for protection
		MicroSD card interface	Standard MicroSD interface
		Power supply interface	Terminal interface, built with power phase reversal and overvoltage protection
		Text display interface	Supporting the text display of SPC device real-time monitoring parameters, in two lines
3	Power supply	Standard power	DC 24V/5~30V/5V
		Supply range	DC 6~30V/ 4.5~30V/5~6V
4	Power consumption	Communication status	200mA@12VDC; 400mA@5VDC
		Standby status	20mA@12VDC; 35mA@5VDC
		Sleep status	8mA@12VDC; 18mA@5VDC
		Scheduled shutdown status	0.6mA@12VDC; 1mA@5VDC
5	Physical characteristics	Housing	No housing, Ip00
		Size	39mm*88mm
6	Indicator	Status display	39mm*88mm

IWOCloud industrial cloud platform

INVT develops the industrial IoT data processing platform to provide a stable, safe, and high-efficiency base for various IoT industries and application scenarios. As the IoT "brain", the platform provides large-scale data terminal node access and high concurrent terminal access capability to accept, clean, arrange, distribute, and save data uploaded from various devices. In addition, it provides standard database interfaces in unified data format externally, meeting enterprise informationization development needs.
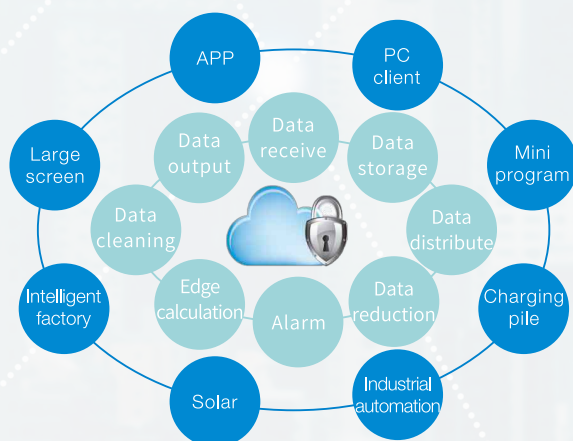
INVT public cloud platform

Customers upload device acquired data to INVT cloud platform (IWoCloud)
· System running: safe and stable
· Maintenance: at low cost

Privatized IoT platform

Customers can deploy industrial cloud platform with private permissions on specified servers, and upload device acquired data to the platform.
· Data privatization
· Maintenance: at high cost for the need of specialist for system stablity maintenance

Industrial cloud service

Policy file maintenance service	Data flow card service	Cloud data storage service	Cloud platform use and maintenance
ICS-SW	**ICS-SIM-**	**ICS-DS-**	**ICS-PF**
Data acquiring policy File maintenance service	· Standard card: 30MB per month · Large data flow card: 100MB per month · Users can recharge their cards before the 12-month service life expires.	· 6M: The data storage rolling period is 6 months. · 12M: The data storage rolling period is 12 months.	INVT cloud platform use and maintenance

Policy file maintenance service
· ICS-SW: Data acquiring policy file maintenance service, implementing the upgrade or update on different data points of monitored devices

Data flow card service
· Standard card: 30MB per month

· Large data flow card: 100MB per month. Users can recharge their cards before the 12-month service life expires

API service
· CS-API: A third-party system can obtain device real-time data, facilitating remote device control and remote program upgrade.

· Standard version: The service application system provides data interfaces, for third-party systems to invoke data.

· Customized version: Data interfaces can be customized based on third-party system requirements.

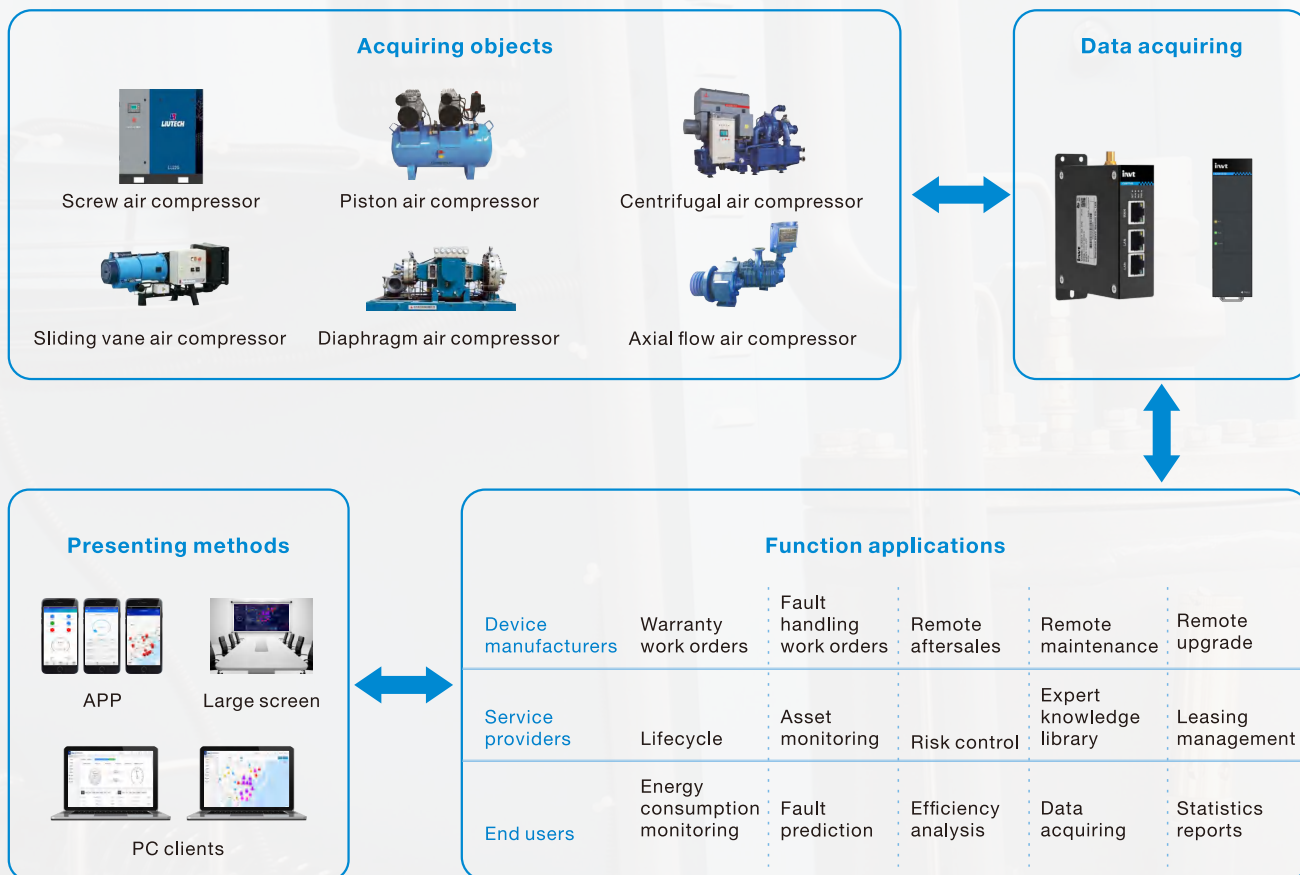### Cloud platform use and maintenance
· INVT cloud platform use and maintenance

Cloud data storage service
· 6M: The data storage rolling period is 6 months

· 12M: The data storage rolling period is 12 months
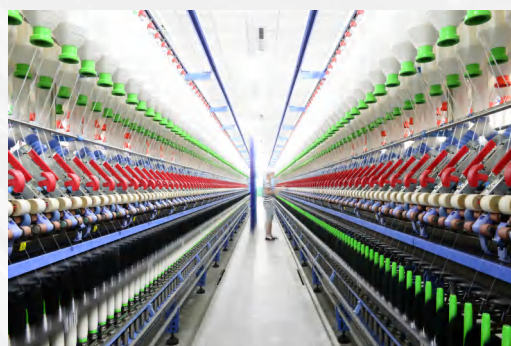
14

Typical industry solutions

Air compressor IoT comprehensive service management platform

Acquiring objects

Screw air compressor

Piston air compressor

Centrifugal air compressor

Sliding vane air compressor

Diaphragm air compressor

Axial flow air compressor

Data acquiring

Presenting methods

APP

Large screen

PC clients

Function applications

Device manufacturers	Warranty work orders	Fault handling work orders	Remote aftersales	Remote maintenance	Remote upgrade
Service providers	Lifecycle	Asset monitoring	Risk control	Expert knowledge library	Leasing management
End users	Energy consumption monitoring	Fault prediction	Efficiency analysis	Data acquiring	Statistics reports

● Solutions

1. Saving aftersales costs: Remote aftersales can improve overall aftersales efficiency and reduce aftersales costs.
2. Device status monitoring and operation analysis: The best economic efficiency of replacing vulnerable and consumable parts can be achieved by real-time detection and intelligent analysis of these parts of air compressor.
3. IoT supervision and online leasing business: The ownership of leased device is separated from operational services, improving efficiency and reducing risks.
4. Refined energy consumption management: Through the IoT management, an enterprise can achieve a reduction of approximately 10% in energy consumption under the same operating conditions, saving at least RMB 700,000 in energy consumption costs annually.

Textile IoT smart management platform

Data acquiring

Network version:
2G/4G/WiFi/Network port
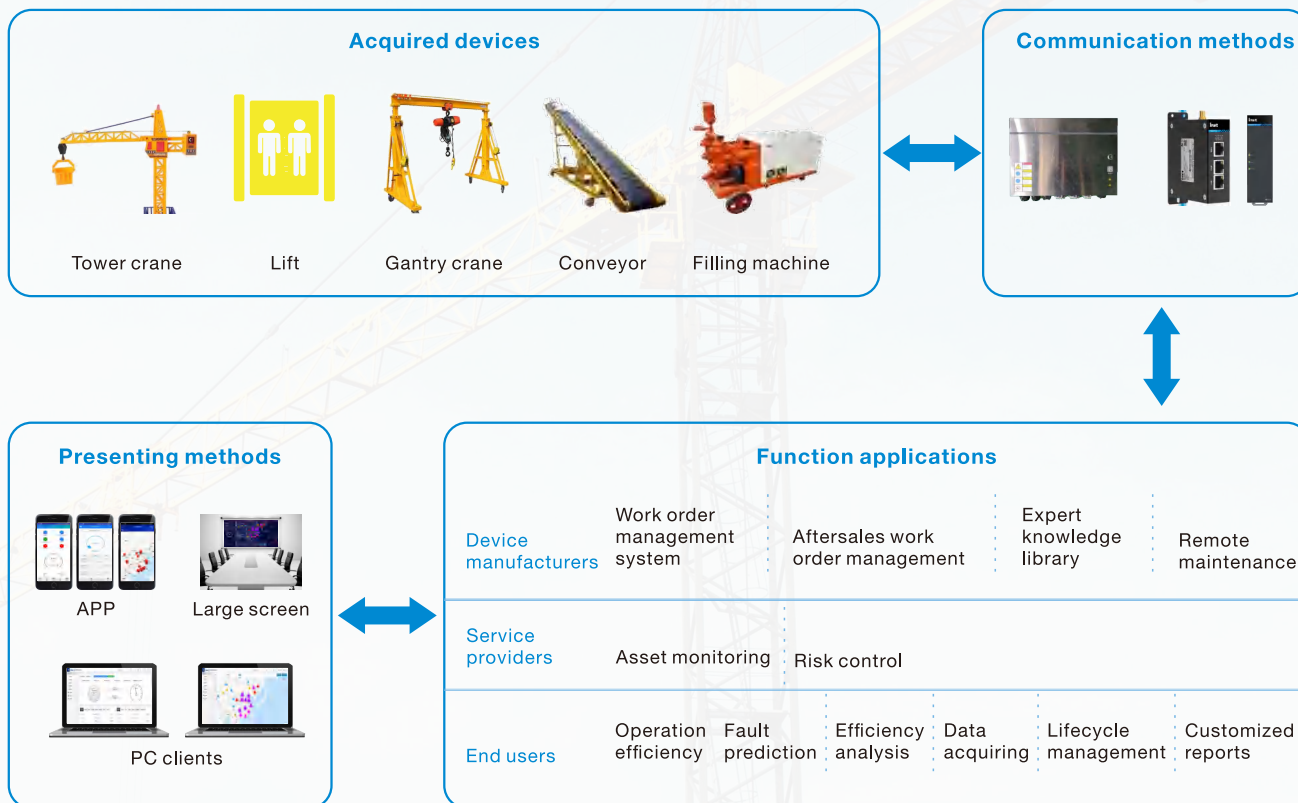
IoT system platform

INVT CLOUD
supporting privatized
deployment

Interface:
RS485/232
Ethernet

Protocol:
Modbus
supporting standard common
protocols

Textile machinery

Service application system

Real-time monitoring	Fault prediction	Data analysis	Capacity optimization	Centralized monitoring
Leasing management	Automatic piece counting	Lifecycle	Production reports	Performance improvement
Remote maintenance	Work order dispatching	Parameter distribution	Remote diagnosis	Remote upgrade

APP   PC clients   Large screen

Textile process production line

● **Solution**

1. It realizes remote monitoring of textile production line device, batch parameter distribution, real-time monitoring of device status, improving production efficiency.

2. It realizes remote fault prediction, reducing downtime of textile production line device, ensuring system stability, and reminding of periodic device maintenance.

3. It realizes the integration of IoT platform with enterprise ERP, PLM, CRM, SCM and other management information systems, helping enterprises in efficient resource flow and integration from product design to production, and ensuring the stability and efficiency of production.

Construction machinery IoT smart management platform

Acquired devices

| Tower crane | Lift | Gantry crane | Conveyor | Filling machine |

Communication methods

Presenting methods

APP   Large screen

PC clients

Function applications

Device manufacturers	Work order management system	Aftersales work order management		Expert knowledge library	Remote maintenance
Service providers	Asset monitoring	Risk control			
End users	Operation efficiency	Fault prediction	Efficiency analysis	Data acquiring	Lifecycle management	Customized reports

● Solution

Device manufactuers

1. Fault work order management: can handle faults timely and accurately, improving user experience.

2. Aftersales and maintenance work order management: can rigger maintenance tasks actively through remote aftersales and remote control, enhancing customer stickiness, and driving accessory sales.

3. Expert knowledge library management: precise fault handling suggestions pushing to assist in efficient management.
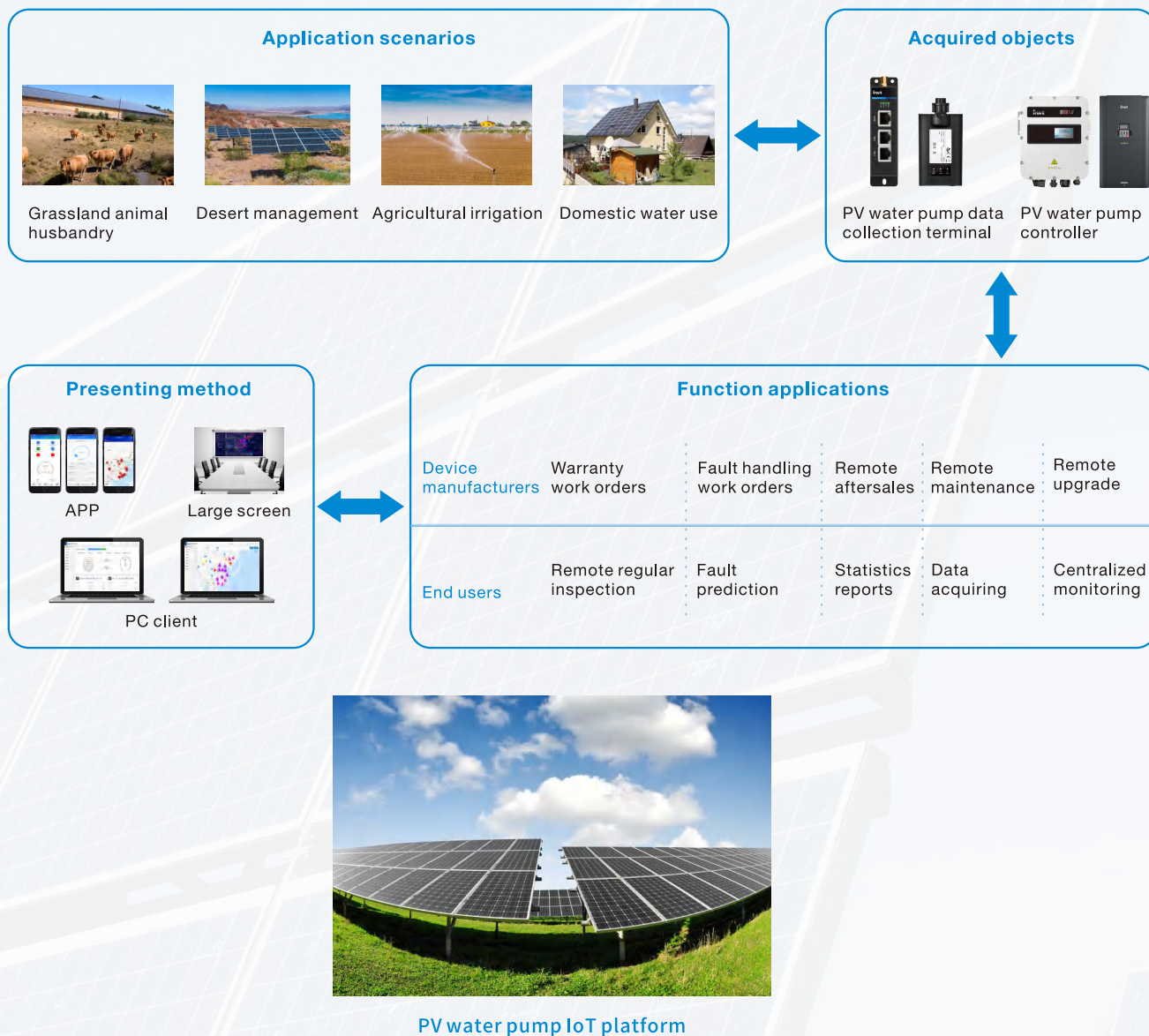
Service providers

1. Risk control: By combining IoT technology to achieve online leasing business, separating ownership of leased device from operational services, improving efficiency and controlling risks.

2. Timely reminder of payment: For device service providers' leasing business, a reminder of lease expiration can be provided to reduce repayment risks.

End users

1. Device monitoring: Real time monitoring of device status and implementation of over limit alarm mechanism for key parameters to ensure onsite safety production.

2. With the help of IoT terminal devices on construction sites, onsite inspectors can track device conditions and respond promptly to emergency situations.

3. Data report management: can generate health data for devices, facilitating maintenance operations, preventing faults, and timely notifying manufacturers for repairs.

4. Full lifecycle management of construction machinery: all device data is fully recorded for engineers to access.

PV water pumpt IoT smart management platform

Application scenarios

Grassland animal husbandry

Desert management

Agricultural irrigation

Domestic water use

Acquired objects

PV water pump data collection terminal

PV water pump controller

Presenting method

APP

Large screen

PC client

Function applications

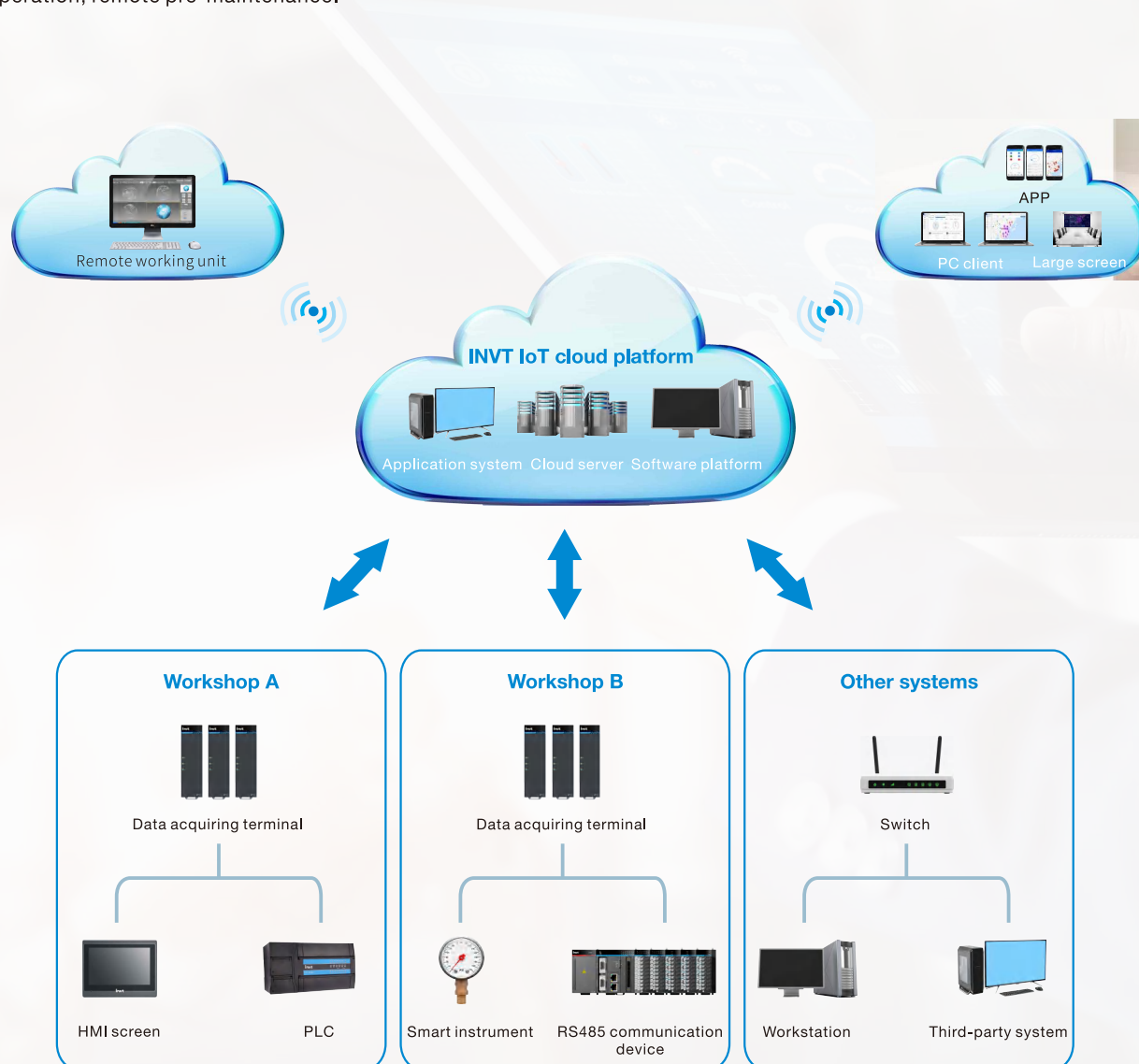|					
Device manufacturers	Warranty work orders	Fault handling work orders	Remote aftersales	Remote maintenance	Remote upgrade
End users	Remote regular inspection	Fault prediction	Statistics reports	Data acquiring	Centralized monitoring

PV water pump IoT platform

● **Solution**

1. Smart regular inspection and efficient O&M: can realize remote monitoring and analysis of PV water pump faults and exceptions, effectively solving practical problems such as difficult monitoring and control of PV water pumps, inspection difficulty, and low O&M effectiveness. Ultimately, the annual cost of O&M and inspection can be reduced by 30%.

2. Panoramic monitoring: can acqure operational data information such as voltage, current, and power of PV water pumps in real time, comprehensively monitor the operation of PV devices, and make intelligent analysis to achieve maximum operational efficiency of the entire PV water pump system.

3. PV water pump devices can be remotely controlled through computers and mobile phones, and key parameters of the devices can be remotely regulated.

## Smart factory solution—Energy saving, emission reduction, production increase and efficiency enhancement

The smart factory solution is a full lifecycle management system for a digital factory or product from requirements to design, production, operation, and maintenance. The purpose is to summarize and integrate the manufacturing data, operation data, maintenance data, and then analyze and process the data through big data analysis systems and artificial intelligence systems, ultimately completing the optimization, production capacity improvement, efficient operation, remote pre-maintenance.

Remote working unit

APP

PC client   Large screen

INVT IoT cloud platform

Application system Cloud server Software platform

Workshop A

Data acquiring terminal

HMI screen   PLC

Workshop B

Data acquiring terminal

Smart instrument   RS485 communication device

Other systems

Switch

Workstation   Third-party system

INVT IoT solution gradually achieves the goal of energy saving, emission reduction, and production increase and efficiency enhancement in smart factories in three stages:

1. To realize the interconnection and intercommunication of various industrial device data in the factory.

2. To manage factory device energy consumption and faults.

3. To establish a mathematical model for device energy saving, emission reduction, and production increase and efficiency enhancement by means of data analyisis.

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INVT Marketing service network

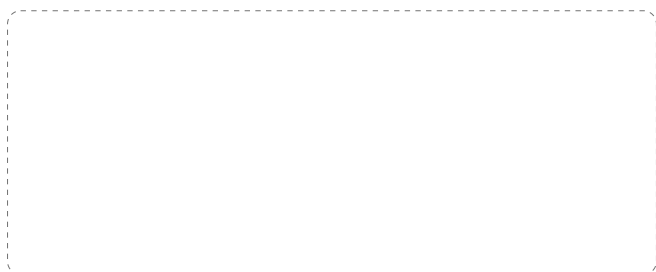Distributor
Service Center
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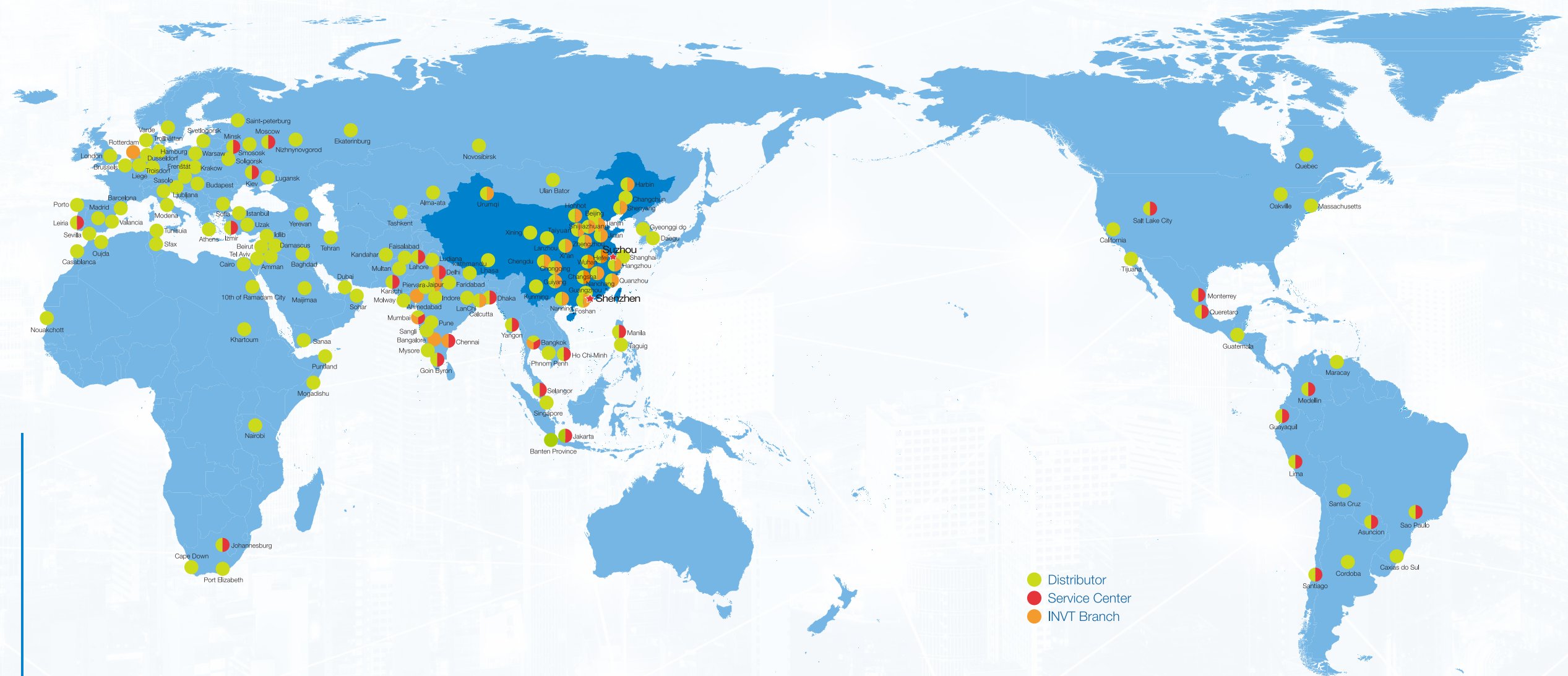
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Headquarter in Shenzhen

Overseas Subsidiaries and offices ***8**

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