RCVM
Smart
Control
Center

Forging the Future of Production

A.ACCORDANCE®
Experts in Diversified Integrated Systems

RCVM Smart Control Center
Production Line Digital Management System

IP Camera

PC-base Production Machine

PLC-base Production Machine

OT

· Environment Visuals
· Face Recognition
· Behavior Analysis

E-Sensor

RCM LINK
RCM LINK+
RCM LINK Touch

PLC PLUS

Air Pressure, Water Pressure, Vacuum, Flow, Revolutions, Thickness, Height …

ASI-RPA

ERP
CIM
MES
EAP

· Graphical display of real-time equipment status.
· Remote control.
· Multiview display of images from equipment monitors and IP cameras.
· Recording and simultaneous playback of equipment displays and on-site visuals.

RCVM Control Center
(cross-plant)

IT

RCVM Control Center
(in-plant)

RCVM Control Center
(mobile remote control)

📍 Machine data handshake and communication integration.

📍 Machine OEE analysis and real-time machine status indication.

📍 RPA script automatically inputs production parameters and commands in place of operators.

📍 Collect and upload machine data (on-screen values, PLC and HMI communication, and E-Sensor values).

📍 Edge computing, data processing, and analysis of heterogeneous big data.

ASI-RPA
Process Automation & Data Collection

Robotic Process Automation (RPA) is technology for executing automated, repeated, and pre-defined tasks. The systems, often called "bots", provide businesses with a digital workforce and improve human working experience.

Benefits of RPA

Wide OS Compatibility, No Coding Required

Unlike API technology, which is built into the back end of a system, RPA programs are used on the front end. The program inputs data, selects options, and performs other tasks the same way humans do, but with greater speed and proficiency. This makes RPA programs the ideal operator for any system.

High Return-on-Investment

The cost of human errors is immense. RPA systems provide large benefits when used on error-prone, time-consuming tasks. RPA bots can input large amounts of data, switch windows, and process production faster and without errors, achieving much greater efficiency than humans. Humans can then focus on more customer-oriented and higher-level tasks.

Improve Employee Experience

Humans are not machines. Their potential goes beyond performing repeated tasks like pressing buttons. Automating routine work gives people the opportunity to use their talents to the fullest. In other words, by leaving repetitive tasks to RPA, businesses can provide employees with a more creative and fulfilling work environment. This builds trust between employers and employees, creates open channels for communication, and improves work experience.

Accordance ASI-RPA Features

📍 **EASY**
Simple and Intuitive User Interface

📍 **EDGE**
Edge Computing Device

📍 **EFFICIENT**
Plug and Play in No Time

FEATURES

· Support Intel® Core i5 Processor

· 1x 260-pin DDR4 2400 SO-DIMM. Max. up to 32GB

· 2x Intel® GbE (Support Wake-on-LAN and PXE)

· Watchdog timer

· TPM 2.0 Supported

RCM LINK

Remote Control & Management for Manufacturing Equipment

The remote control and management module RCM LINK enables personnel to remotely view and operate manufacturing equipment over the network. Users can set recipes, calibrate equipment, and troubleshoot issues from anywhere and at any time. Multiple remote users can access the equipment at a single time for easy collaboration between members and teams.

The RCM LINK requires no drivers or software and does not affect equipment performance. It is compatible with a wide range of operating platforms, including DOS, SUN, and legacy Windows systems. Through the module, remote control is possible during boot, BIOS level, and even when the equipment is not operational. The open API enables integration with management systems and applications such as centralized monitoring and process automation.

System Diagram

- Production Machine
- RCM Link
- WAN
- LAN
- Local user
- Network users
- Global users
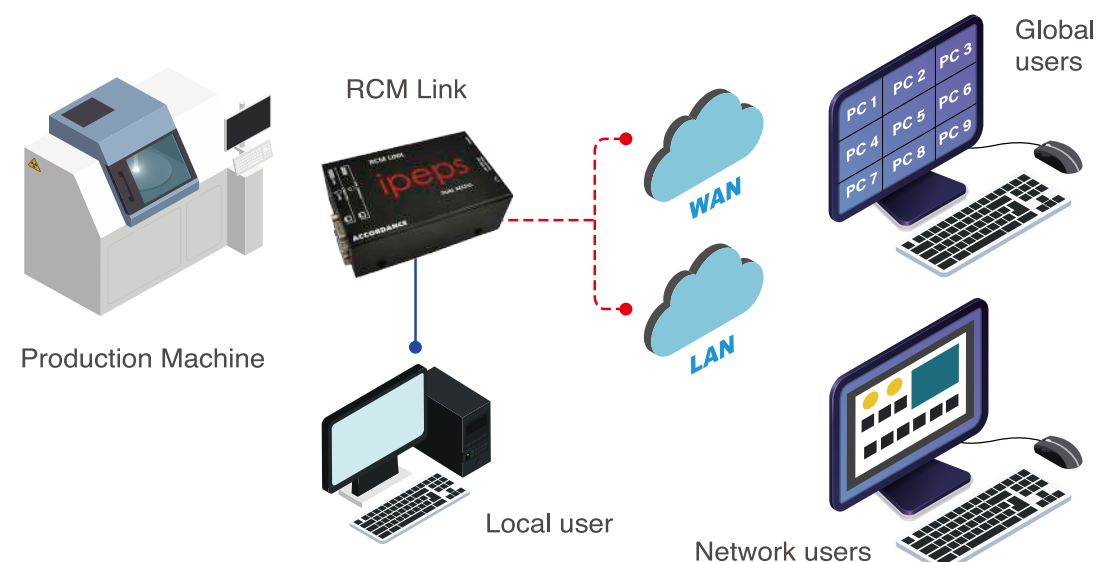
Technical Specifications

Video Mode	Supports standard PC, SUN, and MAC video modes Supports resolutions up to 1600x1200
Operating System Compatibility	Compatible with major operating systems, including Windows (all versions), DOS, Linux, Unix, BSD, SUN, Solaris, Mac, Netware, etc.
Computer Interface	Video: VGA Keyboard/Mouse: PS/2 & USB
Local Console Interface	Video: VGA Keyboard/Mouse: PS/2
Users	Local: 1 Remote: Up to 4 simultaneously
Network Interface	RJ45 10/100 auto sensing
Power Input	5V 100-240 VAC 50 - 60Hz
Dimensions	120mm (W) x 75mm (D) x 27mm (H) 4.72in (W) x 2.95in (D) x 1.06in (H)
Weight	0.34kg / 0.76lbs
Order Part Number	RCM LINK
Optional Part Numbers	ASI-KVM, RCVM, ASI-RPA, AOR

Optional Functions

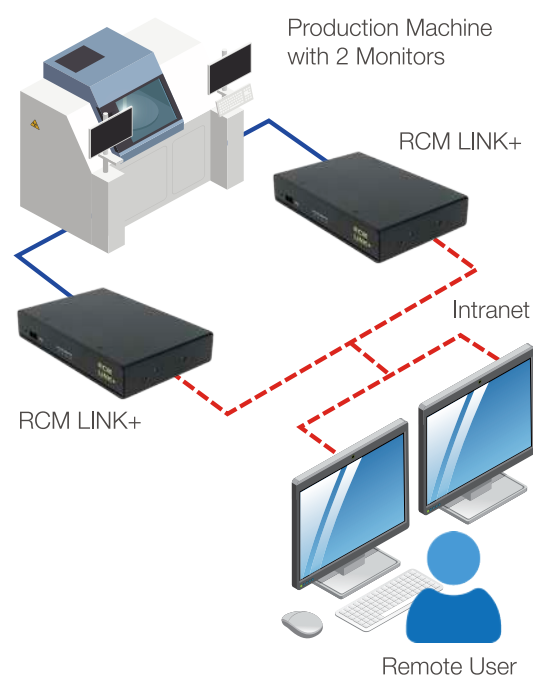| ASI-KVM Console Controller	RCVM Command Center System (Multi-machine Remote Video Management and Control)	ASI-RPA Robotic Process Automation System	AOR Full-time Recording System (Video records of production PC's operation and from IP cameras)
Manage and control the access and operation between the on-site operator and remote operator.	Remote management and control of multiple PCs/machines on a single monitor.	Production parameter verification, automatic recipe selection, automatic alarm response, and data collection.	Recordings of operations can be played back for employee training, troubleshooting, and incident review.

RCM LINK+ & RCM LINK TOUCH

RCM LINK+

The RCM LINK+ enables remote viewing and control of equipment with multiple monitors over the network. Remote users in an office or control room can quickly and easily access and operate the equipment the same way they would if they were on-site.
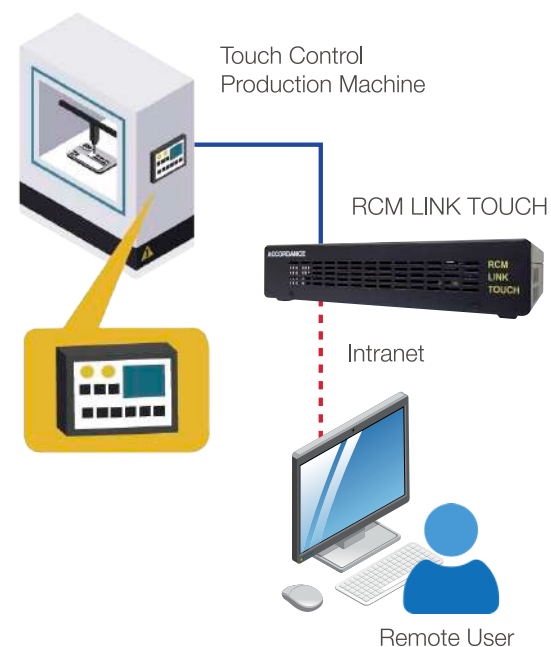
RCM LINK TOUCH

The RCM LINK Touch enables remote control of equipment that use touch control. The module can convert between touch control and mouse signals; remote personnel can operate the equipment using a mouse, while touch control on the equipment end is unchanged.

System Diagram

Production Machine with 2 Monitors

RCM LINK+

Intranet

RCM LINK+

Remote User

System Diagram

Touch Control Production Machine

RCM LINK TOUCH

Intranet

Remote User

Technical Specifications

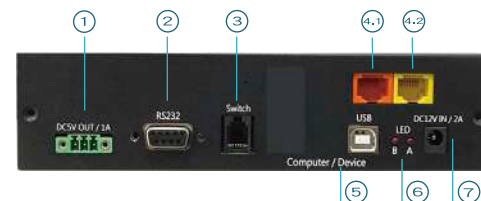|	RCM LINK+	RCM LINK TOUCH
Video Mode	Supports standard PC, SUN, and MAC video modes. Supports resolutions up to 1920x1200	Supports standard PC, SUN, and MAC video modes. Supports resolutions up to 1600x1200
Operating System Compatibility	Compatible with major operating systems, including Windows (all versions), DOS, Linux, Unix, BSD, SUN, Solaris, Mac, Netware, etc.	
Computer Interface	Video: HDMI Keyboard/Mouse: USB	Video: VGA Keyboard/Mouse: PS/2 & USB Console Control Switch: disable/enable remote control Touch Screen: Female DB-9 RS-232 Touch Emulator: Mini DIN 6
Local Console Interface	Video: HDMI Keyboard/Mouse: USB	Video: VGA Keyboard/Mouse: PS/2 Touch Screen: Male DB-9 RS-232
Users	Local: 1 Remote: Up to 8 simultaneously	Local: 1 Remote: Up to 4 simultaneously
Network Interface	RJ45 Ethernet port	RJ45 10/100 auto sensing
Power Input	100-240 VAC, 47/63Hz	DC 5V 3A
Dimensions	169mm (W) x 120mm (D) x 31mm (H) 6.65in (W) x 4.8in (D) x 1.22in (H)	213mm (W) x 149mm (D) x 43.9mm (H) 8.38in (W) x 5.86in (D) x 1.72in (H)
Weight	0.6kg / 1.3lbs	0.99kg / 2.17lbs
Order Part Number	RCM LINK+	RCM LINK TOUCH
Optional Part Numbers	ASI-KVM, RCVM, ASI-RPA, AOR	ASI-KVM, RCVM, ASI-RPA, AOR

ASI-KVM
Console Controller

Features

∗ Manage access from the local and remote keyboard and mouse.

∗ Network version allows access management over the network.
- · Remote users can see access status in real time and check if the computer or device is in use before accessing.
- · Local control can be disconnected when using RPA software to prevent local operation from interrupting the script.
- · Built-in firewall. Only 1 active network port is required when using ASI-KVM with RCM LINK.

∗ Includes external switch for disconnecting remote control.

∗ Can integrate with ASI-200 touch control conversion module.

∗ Built-in OLED display shows local/remote access and absolute mouse status.

∗ DC 5V1A power output can supply power to RCM LINK.

∗ Supports USB keyboard and mouse.

∗ DC 12V2A power input.

Technical Specifications

Connectors	**Computer Port**	USB Type B x 1; RS232 DB-9 Female x 1
	Console Port	USB Type A x 4, RS232 DB-9 Male x 2
	External Switch	RJ11 x 1
Network	**Network Port**	RJ45 x 1 (remote access management over network)
	Firewall	RJ45 x 2 (for internal and external network) *(network version only)*
Status Indicators	**OLED Display**	1
	Keyboard/Mouse Activity	4
	Local/Remote Status	2
Power	**Input**	DC 12V2A
	Output	DC 5V1A

Front Panel

No.	Component
1	DC 5V1A power output
2	RS232 port (for ASI-KVM setup)
3	Switch port (connect to external switch)
4	Firewall
	4.1 – Internal network port
	4.2 – External network port
5	USB port (connect to Tool PC)
6	Local/remote status indicator
	A – Local access
	B – Remote access
7	DV 12V2A power input

Rear Panel
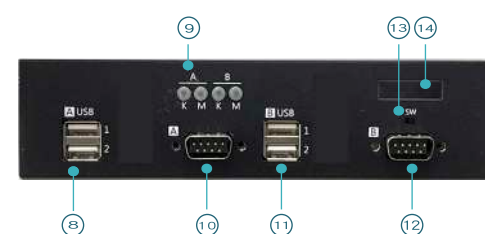
No.	Component
8	Local keyboard/mouse port
9	Local/remote keyboard and mouse activity
10	COM port
11	Remote keyboard/mouse port
12	COM port
13	Absolute/relative mouse mode switch
14	OLED display

System Diagram

Production Machine

ASI-RPA RCVM AOR

RCM Safety Switch

Enterprise Network

Local Console Keyboard & Mouse

ASI-KVM

RCM

RC VM Remote Control Video Monitoring

The RCVM can display live images from up to 36 manufacturing equipment in a single window. Grasp the status of an entire production line with a single glance and remotely operate equipment from a control room or office.

Clean Room

RCM LINK

Enterprise Network

Control Center

Production Machine

Remote Control & Management Module

Split-screen Monitoring

RCM LINK

Remote Operator
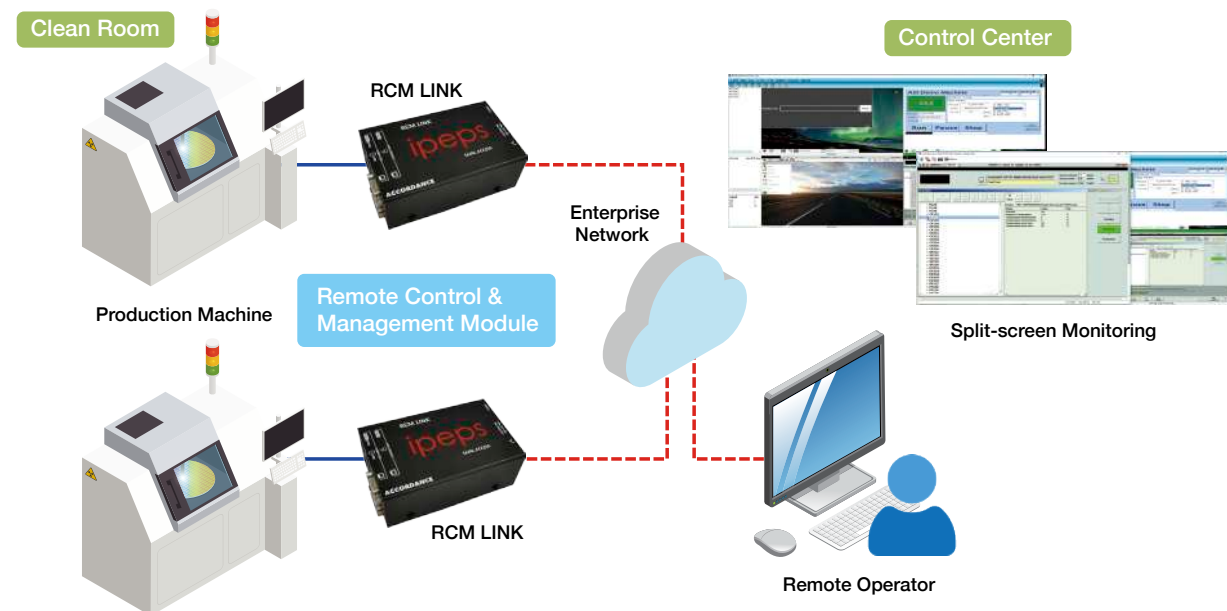
User Access Management
Individually set which equipment each user can view or operate.

Customizable Integration
Integrate the RCVM with manufacturing and equipment management systems, such as FDC systems.

Equipment Status Monitoring
Quickly see which equipment require troubleshooting from the intuitive alarm display on the RCVM interface.

Unlimited Users
Any number of personnel can use the RCVM at a single time, making it easy for different teams to monitor equipment and collaborate.
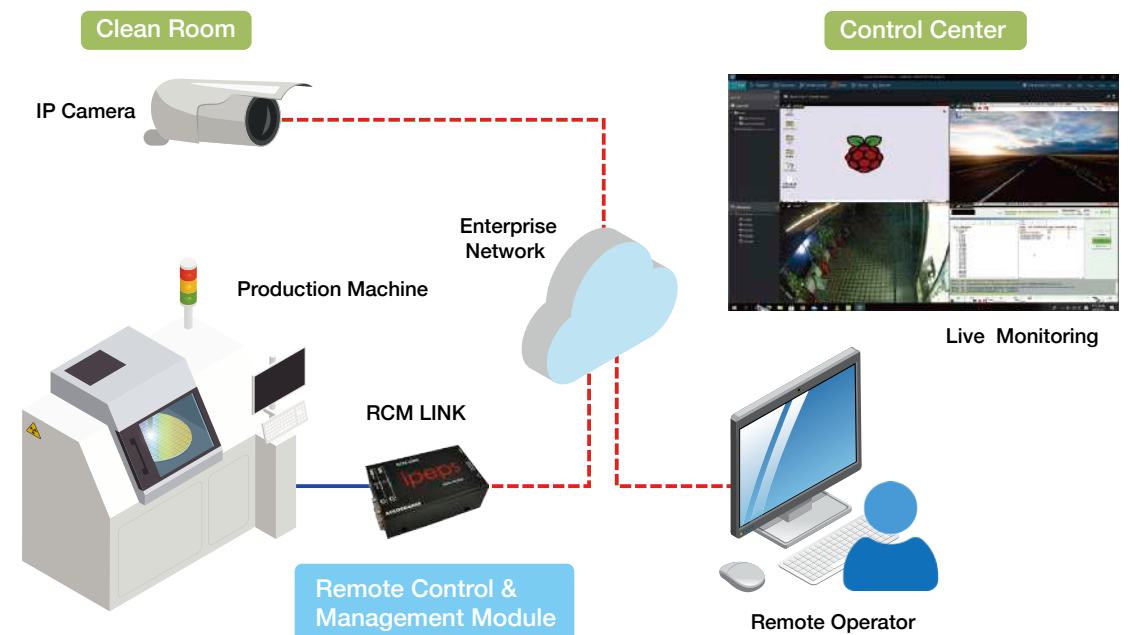
Applications

Wafer Fabrication

Semiconductor Packaging & Testing

PCB Assembly

Panel Manufacturing
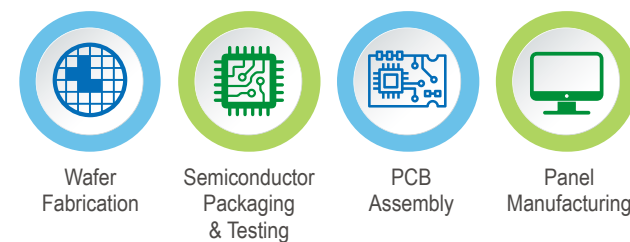
Benefits
- Improve response times to equipment errors
- Increase equipment uptime
- Increase man-machine ratio

AOR Application Operation Recording

The AOR enables live viewing and recording from RCM modules, network cameras, and other video sources. Monitor equipment operation and the local environment from a control room and reduce the need for personnel to be in clean rooms.

Clean Room

IP Camera

Enterprise Network

Control Center

Production Machine

RCM LINK

Live Monitoring

Remote Control & Management Module

Remote Operator

Snapshots & Video Exports
Take snapshots and export videos of equipment displays and from selected cameras to share with team members or to use as training material.

Synced Playback
See everything that occurred through synchronized video playback of equipment displays and from on-site cameras during incident investigations.

Automatic Actions
The AOR offers a variety of automatic actions. Start recording when the equipment begins running, send notifications when sensors are triggered, or change the status of a digital output.

Device Integration
Integrate the AOR with digital inputs, outputs, sensors, and other devices and use them to trigger automatic actions.

Unlimited Users
Any number of personnel can use the AOR at a single time, making it easy to collaborate with other teams.

About us

Accordance Systems Inc. was established in 1998. We offer diverse integrated system solutions and have many years of onsite experience in setting up smart manufacturing systems, energy-efficient server rooms, and surveillance systems.

Our solutions can assist customers with automation and digitalizaion on their production lines. They are compatible with a wide range of operating systems and require no change to existing hardware or workflows.

Applications & Industries:
Clean rooms, Semiconductor (Foundry), PCB Assembly, Semiconductor (Packaging and Testing), Electronics Plants

Locations:
Taiwan (New Taipei City, Hsinchu, Tainan), USA, Korea, Singapore, Malaysia

For more information, please visit www.accordance.com.tw or contact us.

Accordance Systems Inc.

(**NTPC**) 10F., No. 258, Nanyang St., Xizhi Dist., 221 New Taipei City, Taiwan R.O.C.

(**HCH**) 5F., No. 15, Ln. 6, Jinshan 6th St., East Dist., 300 Hsinchu City, Taiwan R.O.C.

(**TNN**) 3F.-3, No. 21-3, Jianguo Rd., Shanhua Dist., 741 Tainan City, Taiwan R.O.C.

Tel :+886-2-2726-3239   Fax: +886-2-2728-1322   E-mail: sales@accordance.com.tw

Accordance USA
2001 Westown Parkway, Suite 106 West Des Moines, 50265 IA, USA
TEL: +1-515-223-4845

Accordance Korea
Office 1217, Mullae SK VI Center 12F, 10, Seonyu-ro 9-gil, Yeongeungpo, 07281 Seoul, Republic of Korea
TEL: +82-2-070-7878-8539

Accordance Singapore
73 Ubi Road 1, #08-62, Oxley Bizhub, 408733 Singapore
Tel: +65-92700927

Accordance System (M) Sdn Bhd
151-4-3A, Wisma Mutiara Puchong, 6 ½ Miles Jalan Puchong 58200 Kuala Lumpur, Malaysia
Tel: +603-77818411

ACCORDANCE   Experts in Diversified Integrated Systems

www.accordance.com.tw
systems.accordance.com.tw