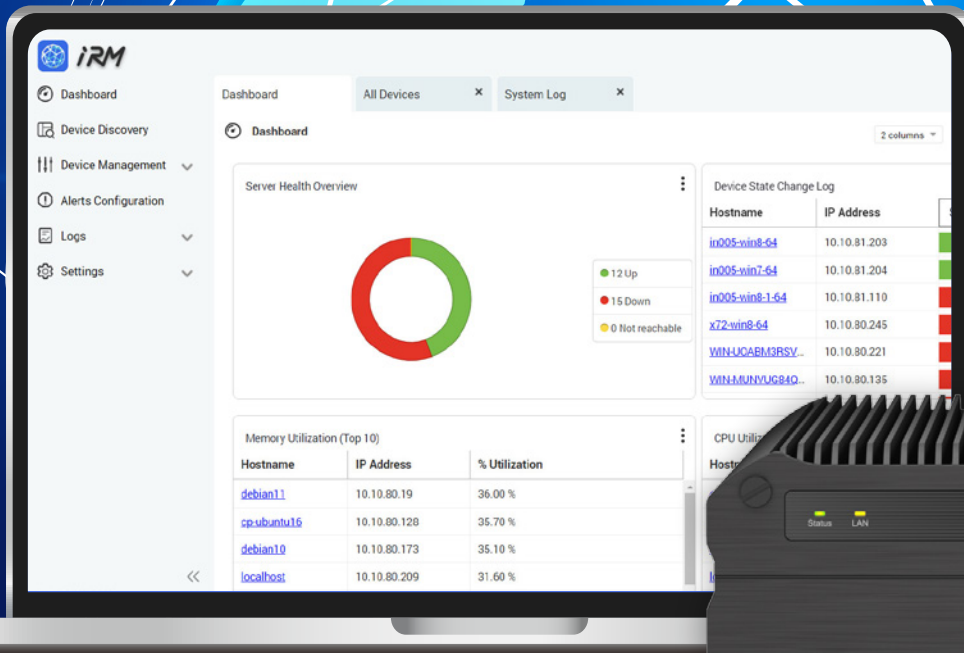# Centralized System Monitoring Solution

Centralized Monitoring Solution for Industrial PC to simplify OT daily operation , and increasing service availability in Edge Side

iEi ®

Multi OS Support   **Auto Alert**   **RAID 1 Protect**   **Wide temperature**

ICP Deutschland GmbH | +49(0)7121-14323-20 | sales@icp-deutschland.de | www.icp-deutschland.de

What is iRM ?

iRM is IEI's Centralized Remote Management Solution designed for OT/IT Teams for Industry PC. It provides single point solution to monitor all the Critical IPC such as Industrial Servers/IPC/vIPC in OT network. iRM helps to easily monitor your OT/IT infrastructure worldwide through single interface within fraction of time.

▌ What is the benefit ?

- To decrease OT Workload device monitoring effort in operation and increased system Availability
- Detect underlying problems before control system have an adverse effect
- Detect problems that affect a user's productivity
- Collect data when a problem occurs for the first time
- Allow you to establish a baseline for comparison and alert
- Allow you to store your data in edge side

Efficient Management & Trouble shooting
Seamless monitoring, centralized control of managed applications

Improved Availability
Quick issue diagnosis for device accessibility and reduced downtime.

Secure Sever Platform
Wide-temp mini server with pre-installed OS and one-click OS recovery

Enhanced Data protection
Wide selection of RAID

Cross-platform Capabilities
Full compatibility with any x86 platform

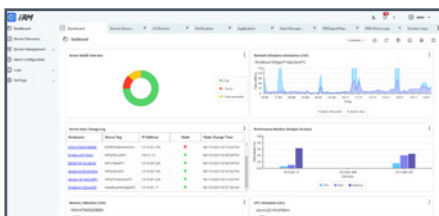**Customizable Email Alerts**
Tailored Email notifications
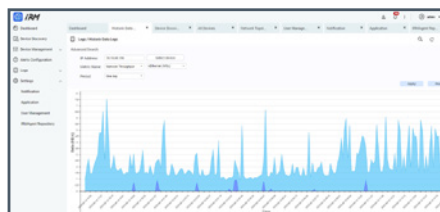
iRM Software Specifications

Main Features	Sub Features
Dashboard and Widget (user difined dashboard by system build-in widget)	CPU Utilization Memory Utilization Disk Utilization Disk Volume Live Information Disk Throughput Network Utilization Device Health Overview State Change Log Shutdown Devices (Recent 10) Performance Monitor (Multiple Devices) Performance Monitor (Single Devices) Export to PDF Export and email as PDF document
Device Discovery (add your client device in iRM platform through network)	Device Discovery by network Add Device Search Device
Device Management	Single and Multi Device Management Page • Export PDF • Email as PDF • Add Device • Delete Device Remote Power Control Remote Desktop Network Topology View
Alert Configuration	CPU Utilization Memory Utilization Disk Utilization Power Status
Logs	IRM Alerts Log System Log Historic Data Log Query
Settings	Notification Settings Applicatoin Settings User Management: system admin, OT power user IRMAgent Repository Download
Monitored Client OS Support	• Window® 32-Bit: Window® 7, Windows® 8/8.1 • Window® 64-Bit: Windows® 7, Windows® 8/8.1, Windows® 10, • Window® 11, Windows® Server 2012, Windows® Server 2016, • Windows® Server 2019, Window® Server 2022 • Ubuntu 64-Bit: Ubuntu 16.04, Ubuntu 18.04, Ubuntu 20.04, Ubuntu 22.04 • Debian 64-Bit : Debian 8, Debian 9, Debian 10, Debian 11 • CentOS 64-Bit: CentOS 7
Software Standard Warranty and Support	1 Year

For detail to check online user manual

▌ Simple and Intuitive Web-Based Portal

Device Health Status Dashboard
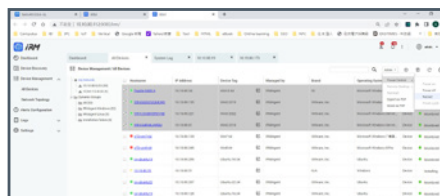

Historic Data Query

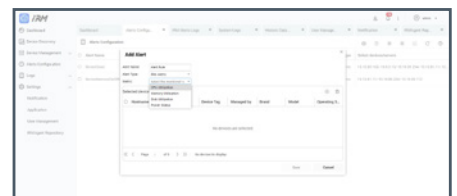### Network Topology View

Add Alert Rule

Device Group Control

Notification Mail Setting

iRM Mini Server Appliance Specifications

Model		iRM-TSi410X	iRM-TS410E
Chassis	Color	Black	Black
	Dimensions (H x W x D)	65 x 180 x 254 mm (2.56 x 7.09 x 10 in)	60 x 180 x 254 mm (2.36 x 7.09 x 10 in)
	Fan/Fanless	Fanless	Fanless
	Construction	Extruded alluminum alloy	Extruded alluminum alloy (front panel: plastic)
Processor	CPU	Intel® Atom® x6425E	Intel® Celeron® J6412
	Frequency	4-core/4-thread 2.0 GHz base/3.0 GHz burst	4-core/4-thread processor, burst up to 2.6 GHz
	Encryption engine	AES-NI	AES-NI
	Graphics	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® UHD Graphics for 10th Gen Intel® Processors
Memory	Pre-installed	8 GB RAM	8 GB RAM (on board)
	Maximum	8 GB RAM	8 GB RAM (non-expandable)
	Flash memory	4 GB (dual-boot OS protection)	4 GB (dual-boot OS protection)
Storage	Drive bays	4 x 2.5-inch SATA 6 Gbps	4 x 2.5-inch SATA 6 Gbps
	Hot-swapping	This device supports hot-swapping for all drives.	This device supports hot-swapping for all drives.
	Pre-installed SSD/ HDD	2 x 2.5-inch 512GB SATA SSD with RAID 1 Operational Temperature: - 20°C to 75°C	2 x 2.5-inch 512GB SATA SSD with RAID 1 Operational Temperature: 0°C to 70°C
	RAID	Support RAID 1 / 5 / 6 / 10	Support RAID 1 / 5 / 6 / 10
Network	10 Gigabit network interface	2 x 10G BASE-T (10G/5G/2.5G/1G)	2 x 2.5 GbE RJ45 (2.5G/1G/100 Mb./10 Mb.)
External I/ O Ports & Expansion Slots	USB ports	4 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 2 Type-A
	HDMI™ ports	1 x HDMI™ 1.4b (up to 3840 x 2160 resolution at 30Hz)	1 x HDMI™ 1.4b (up to 3840 x 2160 resolution at 30 Hz)
Interface	Buttons	Power / Reset	Power / Reset
Power	Power supply unit	1. External power adapter 90W and above, 100-240V AC 2. 9-36V DC input	External power adapter, 90W and above, 100-240V AC
	System battery	CR2032 lithium battery (3V, 225 mAh)	CR2032 lithium battery (3V, 225 mAh)
Relative humidity	Relative humidity	• Non-condensing relative humidity: 5% to 95% • Wet-bulb temperature: 27˚C (80.6˚F)	• Non-condensing relative humidity: 5% to 95% • Wet-bulb temperature: 27˚C (80.6˚F)
Package	Package Dimensions	290 x340 x195 mm (11.42 x 11.39 x 7.68 in)	290 x340 x195 mm (11.42 x 11.39 x 7.68 in)
Reliability	Operating Temperature	-40˚C to 70˚C (-40˚F to 158˚F)	0˚C to 40˚C (32˚F to 104˚F)
	Storage Temperature	-45 - 85°C (-49°F - 185°F)	-20˚C to 70˚C (-4°F - 158°F)
Mount	Mount support	• VESA mount: 75 x 75 mm (2.95 x 2.95 in)	• Stand Mount
		Load bearing: > 15 kg (33.07 lbs)	• VESA mount: 75 x 75 mm (2.95 x 2.95 in)
		M4x6 screws	Load bearing: > 15 kg (33.07 lbs)
		Hole depth: 7.5 mm (0.26 in)	M4x6 screws
		Tooth depth: 5 mm (0.20 in)	Hole depth: 7.5 mm (0.26 in)
			Tooth depth: 5 mm (0.20 in)
Weight	Net weight	2.54 kg (5.6 lbs)	2.64 kg (5.82 lbs)
	Gross weight	3.85 kg (8.5 lbs)	3.83 kg(8.44 lbs)
Safety / EMC		CE / UKCA / FCC / VCCI–B / BSMI	CE / UKCA / FCC / VCCI–B / BSMI
Hardware Standard Warranty		3 Years	3 Years
Pre-install Application		IRM (IEI Remote Management)	IRM (IEI Remote Management)

Ordering Informaton

Model	Description
IRM-TSi410X-8G2H-R10	Ruggedized Fanless IRM Mini Server with IRM application , QTS OS , Intel® Atom® x6425E 4-core/4-thread , 8GB RAM,2 x Industrial grade 512GB SSD pre-install, 4 x Drive Bay, 1 x HDMI™, 9-36V DC or power adapter, 90W AC 100-240V , RoHS
IRM-TS410E-8G2H-R10	Ruggedized Fanless IRM Mini Server with IRM application , QTS OS , Intel® Celeron® J6412 4-core/4-thread , 8GB RAM, 2 x commercial grade 512GB SSD pre-install, 4 x Drive Bay, 1 x HDMI™, power adapter 90W 100-240V AC , RoHS

Optional Storage

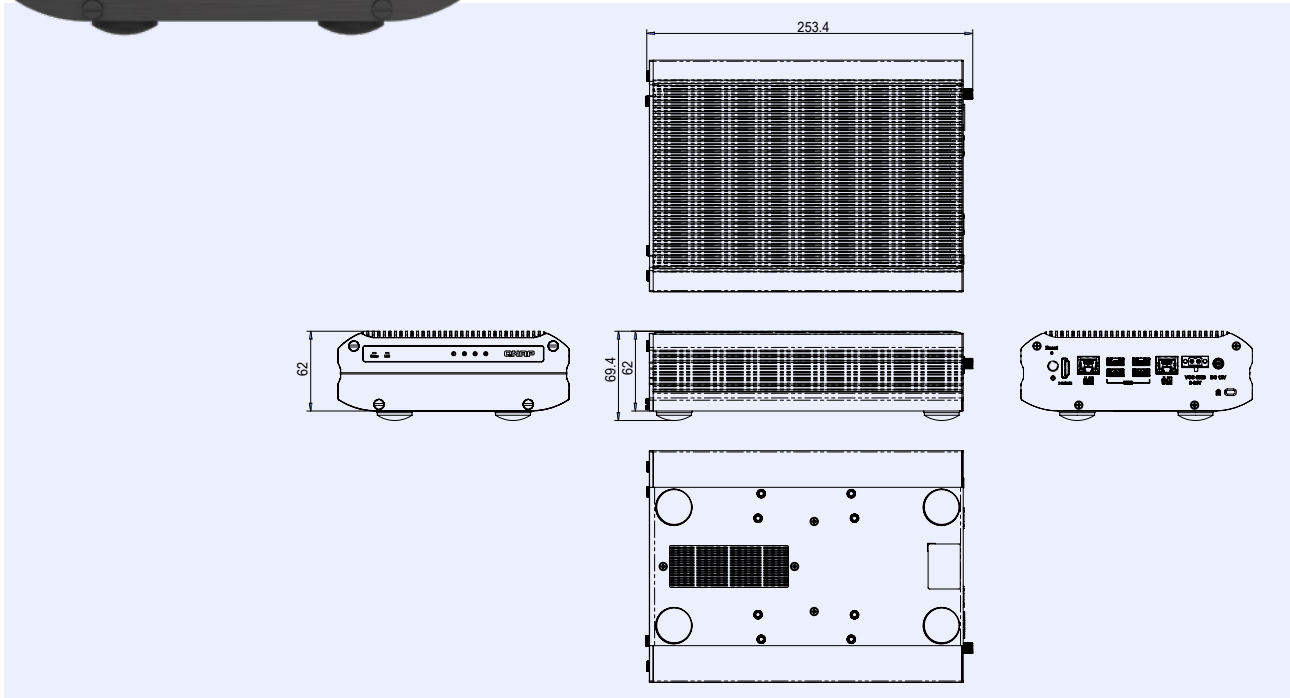| Part No	Description
79700-G51201TC09-RS	512 GB 2.5 inch SATA3 industrial grade SSD , Operational Temperature:- 20°C to 75°C
79700-G51201AP05-RS	512 GB 2.5 inch SATA3 standard grade SSD , Operational Temperature: 0°C to 70°C

Notes: The optional storage for storage expansion

Packing List

1 x iRM Mini Server	1 x AC power adapter
1 x Ethernet cable (RJ45)	Screws for 2.5-inch drives
2 x Stands (only iRM-TS410E)	1 x Power cord
1 x Hardware Quick Installation Guide (QIG)	1 x iRM Software Quick Setup Guide (QSG)

iRM−TSi410X
Hardware Dimensions (Unit: mm)

253.4

62

69.4

62

iRM−TSi410X
Hardware Dimensions (Unit: mm)

254.4

59.1

189.3

75.85