iFactory RTM



Features

- UNO-1372/2271: Intel® Atom™ E3825/Intel® Celeron™ J1900 processor with 4GB DDR3L onboard memory
- UNO-238 :8th generation Intel® Core™ i processor with 4GB DDR4 onboard Memory
- MIC-7700: Intel® 6th/7th Gen Core™ i CPU socket-type (LGA1151) with Intel® Q170 chipset, 16GB/32GB DDR4 onboard memory
- MIC-770: Intel® 10th Gen Xeon®/Core™ i CPU socket-type (LGA1200) with Intel® H420E chipset , 16GB/32GB DDR4 onboard memory
- Supports iFactory i.apps with flexible download mode
- Supports data preprocessing to increase accuracy
- Easy configuration and simple dashboard for real time monitoring
- Quickly connect with Advantech iFactory cloud solutions through MQTT
- Supports event and alarm settings

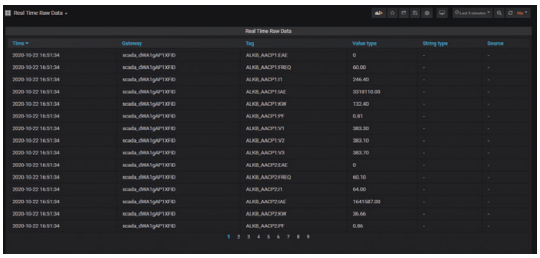
Introduction

iFactory RTM (Real-Time Monitoring) is an IIoT solution which enables sensors and data to communicate with each other based on supported protocols. Through the easy configuration of the iFactory/RTM data acquisition software, you can create a simple visual dashboard which monitors real time data – allowing the user to monitor production data and configure events and settings. iFactory RTM also pre-processes and aggregates data, which reduces unnecessary relays to the cloud, thereby lowering overall solution cost. We also provide a total solution that allows you to upload pre-processed data through iFactory/RTM to our cloud solution through MQTT.

Key Functions

iFactory/RTM

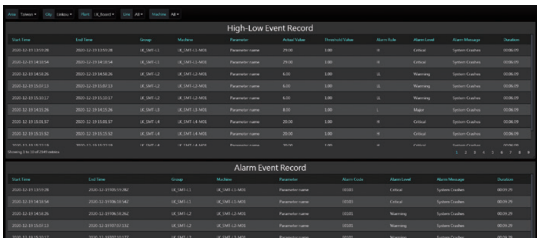
- Web gateway user interface for remote setting and maintenance.
- Simple dashboard for real time monitoring.
- Quickly connect with Advantech iFactory's cloud solutions through MQTT.
- Provides simple event and alarm settings.
- Lower data transition volume to cloud saves storage costs.
- 7-day historical data tracing.
- Easy software upgrades via Docker design.
- Supports 7-day continuous data transfer to the cloud.



Real-time Raw Data



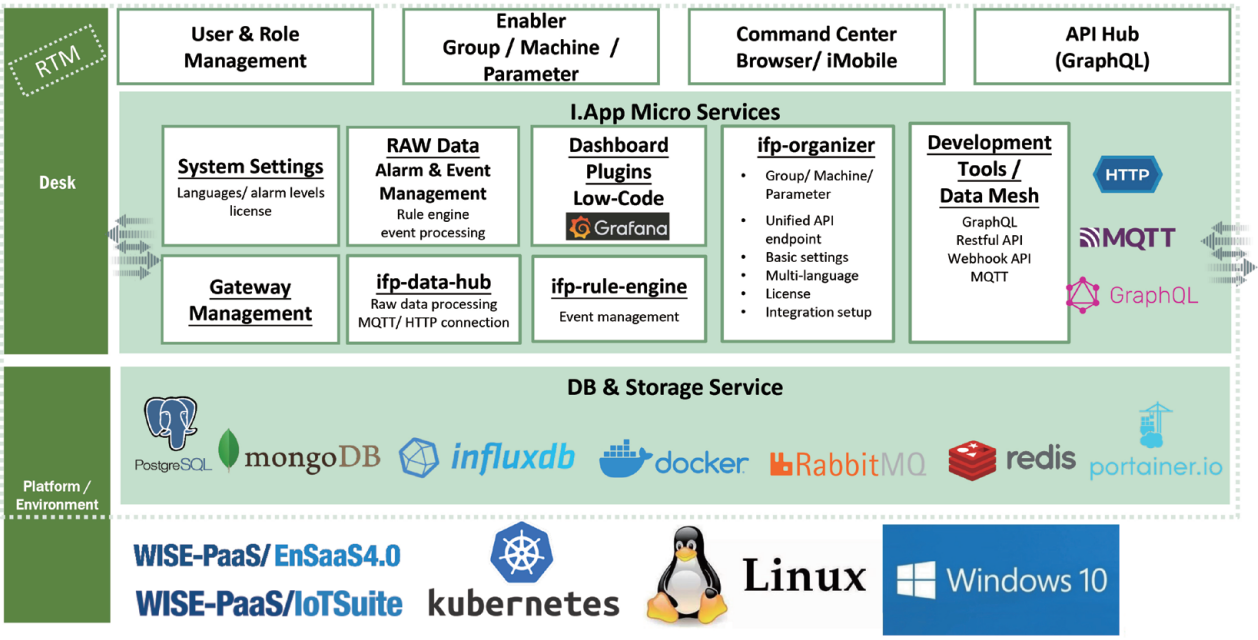
Historical Trends



Event and Alarm Management



Customized Dashboard



Selection of Gateway Service

Part Number		IFS-RTM-U238L3A	IFS-RTM-U238L4A
SRP Software	Software	iFactory/RTM 1000 tag/5s (suggested)	iFactory/RTM 2000 tag/5s (suggested)
	Container Tech	Docker on Ubuntu	
	Database	InfluxDB Version 1.8 & Mongo version 4	
	Customized Graphic Platform	WISE-PaaS/Dashboard (dashboard edge lite plan with multi-language)	
	Browser	Supports HTML5 Browser (recommend google chrome)	
	Language	English	
SRP Hardware	Hardware Platform	UNO-238-83N1AO	
	CPU	i3-8145UE, 2Core, 3.90 GHz	i5-8365UE, 4core, 4.10 GHz
	Memory	16GB DDR4 2666Mhz	32GB DDR4 2666Mhz
	Storage	128GB SSD SATA3	256GB SSD SATA3
	Power Supply Unit	Optional	
	Operating Temperature	-20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow	
	I/O & Port	2 x RS232/422/485 4 x USB 3.2	
	Certifications	CE, FCC , UL, CCC, BSMI	

Ordering Information

Part Number	Description
IFS-RTM-U238L3A	UNO-238,i3,16G,128G,Linux,iFactory/RTM
IFS-RTM-U238L4A	UNO-238,i5,32G,256G,Linux,iFactory/RTM

Optional Accessories

Part Number	Description
1702002600	Power Cord UL 10A 125V 180cm
1702031801	Power cable, 3-pin, 1.8 M, U plug
1700018705	Power cable, 3-pin, 1.8 M, EU plug
AQD-SD4U16N24-SE	Optional DDR4-2400 Memory (16GB)

Selection of Gateway Service

Solution Ready Package		Manufacturing Edge(M7700-Linux)		
Part Number		IFS-RTM-M7700L3A	IFS-RTM-M7700L4A	IFS-RTM-M7700L5A
SRP	Operation System	AdvLinuxTU		
Software	Software	iFactory/RTM 1000 tag/5s (suggested)	iFactory/RTM 2000 tag/5s (suggested)	iFactory/RTM 4000 tag/5s (suggested)
	Container Tech	Docker on Ubuntu		
	Database	InfluxDB Version 1.8 & Mongo version 4		
	Customized Graphic Platform	WISE-PaaS/Dashboard (Dashboard Edge Lite plan with multi-language)		
	Browser	Supports HTML5 browser (recommend google chrome)		
SRP Hardware	Hardware Platform	MIC-7700Q		
	CPU	Intel Core 2.3G 6M 2Core i3-7101E	Intel Core 2.3G 6M, 4Core i5-7500TE	Intel Core 2.9G 8M, 4Core i7-7700T
	Memory	16G DDR4	16G DDR4	32G DDR4
	Storage	C drive: 128GB, mSATA SSD D drive: 128G SSD	C drive: 128GB, mSATA SSD D drive: 512G SSD	C drive: 128GB, mSATA SSD D drive: 1T SSD
	Power Supply Unit	150W adapter		
	I/O & Port	RJ45 x 2, VGA x 1, HDMI x 1, USB x 8, COM x 4		
	Certifications	CE / FCC / UL / CCC		

Ordering Information

Part Number	Description
IFS-RTM-M7700L3A	MIC7700,i3,16G,128&128G,Linux,iFactory/RTM
IFS-RTM-M7700L4A	MIC7700,i5,16G,128&512G,Linux,iFactory/RTM
IFS-RTM-M7700L5A	MIC7700,i7,32G,128&1T,Linux,iFactory/RTM

Optional Accessories

Part Number	Description
1702002600	Power Cord UL 10A 125V 180cm
1700022940-01	Power cord PSE, 3-pin, 7A, 125V, 3 m, DAC-ST01
1702002605	Power cord (EU) 2-pin, 10/16A, 220V, 1.83 M, 90 D
AQD-SD4U16N24-SE	Optional DDR4-2400 Memory (16GB)

Selection of Gateway Service

Solution Ready Package		Manufacturing Edge(M7700-Windows)		
Part Number		IFS-RTM-M7700W3A	IFS-RTM-M7700W4A	IFS-RTM-M7700W5A
SRP	Operation System	Windows 10		
Software	Software	iFactory/RTM 1000 tag/5s (suggested)	iFactory/RTM 2000 tag/5s (suggested)	iFactory/RTM 4000 tag/5s (suggested)
	Container Tech	Docker on Ubuntu		
	Database	InfluxDB Version 1.8 & Mongo version 4		
	Customized Graphic Platform	WISE-PaaS/Dashboard (Dashboard Edge lite plan with multi-language)		
	Browser	Supports HTML5 browser (recommend google chrome)		
SRP Hardware	Hardware Platform	MIC-7700Q		
	CPU	Intel Core 2.3G 6M 2Core i3-7101E	Intel Core 2.3G 6M, 4 Core i5-7500TE	Intel Core 2.9G 8M, 4 Core i7-7700T
	Memory	16G DDR4	16G DDR4	32G DDR4
	Storage	C drive: 128GB, mSATA SSD D drive: 128G SSD	C drive: 128GB, mSATA SSD D drive: 512G SSD	C drive: 128GB, mSATA SSD D drive: 1T SSD
	Power Supply Unit	150W adapter		
	I/O & Port	RJ45 x 2, VGA x 1, HDMI x 1, USB x 8, COM x 4		
	Certifications	CE / FCC / UL / CCC		

Ordering Information

Part Number	Description
IFS-RTM-M7700W3A	MIC7700,i3,16G,128&128G,Win10,iFactory/RTM
IFS-RTM-M7700W4A	MIC7700,i5,16G,128&512G,Win10,iFactory/RTM
IFS-RTM-M7700W5A	MIC7700,i7,32G,128&1T,Win10,iFactory/RTM

Optional Accessories

Part Number	Description
1702002600	Power Cord UL 10A 125V 180cm
1700022940-01	Power cord PSE, 3-pin, 7A, 125V, 3 m, DAC-ST01
1702002605	Power cord (EU) 2-pin, 10/16A, 220V, 1.83 M, 90 D
AQD-SD4U16N24-SE	Optional DDR4-2400 Memory (16GB)

Selection of Gateway Service

Solution Ready Package		Manufacturing Edge(M770)	
Part Number		IFS-RTM-M770L4A	IFS-RTM-M770L5A
SRP Software	OS	AdvLinuxTU	
	Software	iFactory/RTM 2000 tag/5s (suggested)	iFactory/RTM 4000 tag/5s (suggested)
	Container Tech	Docker on Ubuntu	
	Database	InfluxDB Version 1.8 & Mongo version 4	
	Customized Graphic Platform	WISE-PaaS/Dashboard (dashboard edge lite plan with multi-language)	
	Browser	Supports HTML5 browser (recommend google chrome)	
SRP Hardware	Hardware Platform	MIC-770Q	
	CPU	Intel Core 2.3G 12M, 6 core i5-10500TE	Intel Core 2.0G 16M, 8 core i7-10700TE
	Memory	32G DDR4	32G DDR4
	Storage	C drive: 128GB, mSATA SSD D drive: 512G SSD	C drive: 128GB, mSATA SSD D drive: 1TB SSD
	Power Supply Unit	230W adapter	
	I/O & Port	RJ45 x 2, VGA x 1, HDMI x 1, USB x 8, COM x 4	
	Certifications	EMC: CE/FCC Class A, CCC, BSMI Safety: CB/UL, CCC, BSMI	

Ordering Information

Part Number	Description
IFS-RTM-M770L4A	MIC770,i5,32G,128&512G,Linux,iFactory/RTM
IFS-RTM-M770L5A	MIC770,i7,32G,128&1T,Linux,iFactory/RTM

Optional Accessories

Part Number	Description
1702002600	Power cord UL 10A 125V 180cm
1702031801	Power cable, 3-pin, 1.8 M, U plug
1700018705	Power cable, 3-pin, 1.8 M, EU plug
AQD-SD4U16N24-SE	Optional DDR4-2400 memory (16GB)

Selection of Gateway Service

Part Number		IFS-RTM-UNO2271A	IFS-RTM-UNO1372A
SRP Software	Operation System	AdvLinuxTU	
	User Interface	Character User Interface (Command-Line Interface)	Graphical User Interface
	Software	iFactory/RTM 100 tas/5s, max 300 tag/5s (Suggested), include WISE-Edgelink	
	Container Tech	Docker on Ubuntu	
	Database	InfluxDB Version 1.8 & Mongo Version 4	
	Customized Graphic Platform	Official Grafana/Dashboard	
	Browser	Supports HTML5 Browser (Recommend Google Chrome)	
	Language	English	
SRP Hardware	Hardware Platform	UNO-2271G	UNO-1372G
	CPU	Intel® Atom™ E3825 (1.33 GHz)	Intel® Celeron™ J1900 (2.0 GHz)
	Memory	4 GB DDR3L	
	Storage	32 GB eMMC	32 GB SSD
	Power Supply Unit	Optional	
	I/O & Port	2 x RS 232/422/485 1 x USB 3.0 2 x LAN, 1 x HDMI, supports 1920x1080 @ 60H	4 x RS-232/422/485 1 x USB 3.0, 3 x USB 2.0 2 x LAN 1 x HDMI, supports 1920x1080 @ 60Hz 4 x DI (Dry/Wet Contact) 4 x DO (Sink Type)
	Certifications	CE, FCC Class A, UL, CCC, BSMI	

Ordering Information

Part Number	Description
IFS-RTM-UNO2271A	UNO-2271G, 32G eMMC, Linux, iFactory/RTM, WISE-EdgeLink
IFS-RTM-UNO1372A	UNO-2271G, 32G eMMC, Linux, iFactory/RTM, WISE-EdgeLink

Optional Accessories

Part Number	Description
1702002600	Power cable US Plug 1.8M (industrial grade)
1702031801	Power cable, 3-pin, 1.8 M, UK plug
1702002605	Power cable, 3-pin, 1.8 M, EU plug
96PSA-A60W24T2	A/D 100-240V 60W 24V C14 cord end terminal power adapter