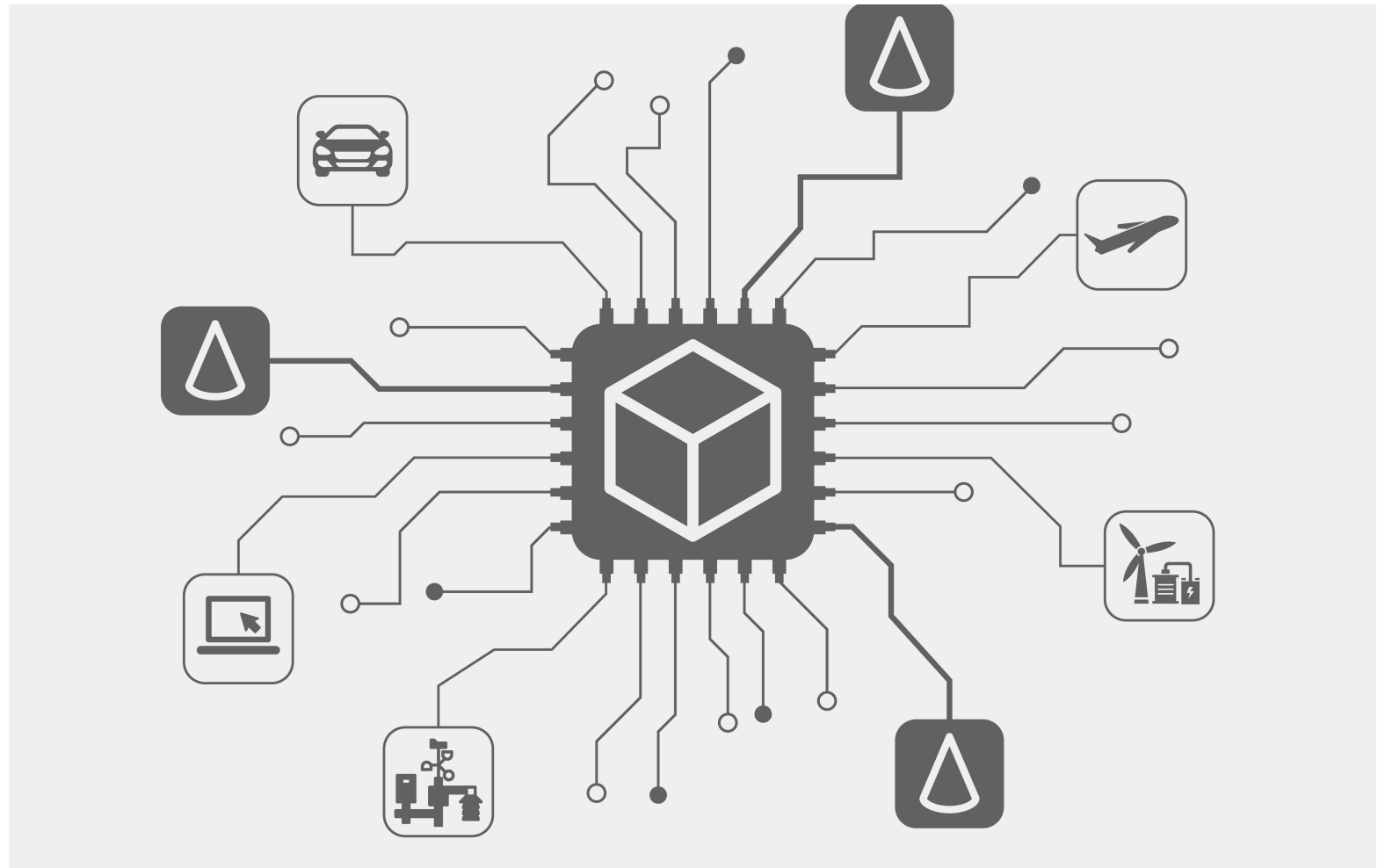




www.kronometrix.com

Valimotie 13A,
Helsinki 00380
T: +358 50 483 9978
sales@kronometrix.com



A simple to use, automatic data collection and transport utility with a small system footprint that supports raw-data collection from Industrial IoT, enterprise ICT, web applications, weather and environmental devices.

KRONOMETRIX

IoT GATEWAY

EASY PLUG-IN

Kronometrix IoT Gateway is a software package, designed for ARM architecture, single board computers, like Raspberry PI. It contains all needed components to connect, record and transport different data from ICT applications, services to IoT sensors and devices. Includes:

- the operating system
- data recording module
- transport utilities and configurations

The original recorded data is temporarily stored on the gateway, for backup

purposes, up to 90 days, at the same time delivered to [Kronometrix SaaS](#), for analysis and visualization. The gateway Includes, by default a number of data recorders, specific for different jobs and responsibilities. The recorders are light software probes running and fetching data from various sources using several communication protocols.

*With a small system footprint
Kronometrix IoT Gateway is easy
to configure and operate, fetching
data from various devices*

Based on [open-source software](#), is simple to connect and manage, using the SSH2 standard secure communication protocol. You can use TCP or Serial connection to manage Kronometrix IoT Gateway.

TECHNICAL SPECIFICATIONS

Hardware [Raspberry PI 3B+, 4B*](#)

Connectivity RS-232, RS-485, USB, RJ45, 802.11b/g/n

Protocols TCP, UDP, HTTP, HTTPS, SNMP, SERIAL ASCII POLLED

MODBUS-RTU, MODBUS-ASCII, MODBUS-TCP, BACNET*

Sampling rate Default 60 seconds, configurable

Realtime Clock [NXP PCF2129](#)

Installation Bootable software image compatible MicroSDXC 64GB



It keeps track of essential performance, availability and inventory metrics from web applications, operating systems, enterprise services or several IoT sensors. The gateway is offering immediate access to raw data and transport utility services for [Kronometrix SaaS](#) or 3rd parties.

You can easily connect Kronometrix IoT Gateway to your private, internal network, using a cable based or wireless network, with a dynamic or static IP address to start immediately to collect data from your applications and sensors. Using simple, commodity MicroSD memory cards, the raw data is always available to access, or recover, if necessarily.

Advantages

Everything ready and configured to connect and record data from web applications, indoor air quality sensors, industrial IoT devices, or other weather, and environment sensors, using standard connectivity protocols. From environmental air quality to ICT enterprise and industrial IoT, Kronometrix IoT Gateway is the most cost effective solution to collect and transport data.

FEATURES

RECORDERS

OPERATING SYSTEM

- **sysrec** - Overall system performance
- **cuprec** - Per CPU data recorder
- **diskrec** - Per disk data recorder
- **nicrec** - Per NIC data recorder
- **hdwrec** - System inventory data recorder
- **procrec** - Process/Task data recorder
- **faultrec** - Fault Management data recorder *

NETWORK MANAGEMENT

- **snmprec** - Ethernet and SAN Switch *
- **netrec** - TCP, UDP data recorder

INTERNET SERVICES

- **certrec** - X.509 certificate recorder
- **direc** - Per directory recorder
- **svcrec** - IMAP, SMTP, POP3, HTTP, TCP(Any), UDP
- **ntprec** - NTP server recorder
- **smtprec** - SMTP server data recorder *
- **imaprec** - IMAP server data recorder *

MIDDLEWARE

- **httprec** - NGINX, Apache, Tomcat, PHP-FPM HTTP/HTTPS server analyser
- **dbrec** - MariaDB, MySQL, PostgreSQL, Redis *
- **jvmrec** - Java VM memory statistics
- **webrec** - HTTP/HTTPS response time analyser

INDUSTRIAL IoT

- **axisrec** - AXIS security and video surveillance data recorder
- **bacrec** - Building management BACnet data recorder *
- **blrec** - Bluetooth Low Energy data recorder *
- **rs485rec** - Industrial RS-232, RS-485, MODBUS data recorder
- **wsrec** - General weather station recorder RS-232/USB



The term Data Source ("DS", "ds") means any system connected to a public or private network with a valid IPv4 or IPv6 address being a server, a data logger, a graphic workstation, an iPad or a sensor bound to a single Kronometrix data subscription.

COMPATIBILITY LIST - 1/2

ENVIRONMENT

AirThings WavePlus	Indoor Air Quality humidity, air temperature, TVOC, RADON	BLE 4.2 (BETA)
Tongdy Sensing Technology IAQ-G01	Indoor Air Quality, humidity, air temperature, CO2, VOC	Modbus-RTU
Tongdy Sensing Technology MSD-1618	Indoor Air Quality, humidity, air temperature, CO2, TVOC, PM2.5, PM10	Modbus-RTU
Tongdy Sensing Technology MSD-0918	Indoor Air Quality, humidity, air temperature, CO2, CH2O, TVOC, PM2.5, PM10	Modbus-RTU
Vaisala GMW95	CO2, Temperature and Humidity Transmitter	Modbus-RTU
Vaisala AQT420	Air quality Transmitter NO2, SO2, CO, O3, humidity, air pressure and temperature, PM2.5 and PM10	Modbus-ASCII

WEATHER

Fine Offset Electronics WH-1080	Non automatic weather station	Serial
Vaisala QML201C	Data Logger	HTTP, Serial
Vaisala HMP155	Humidity and Temperature Probe HMP155	Serial
Vaisala WXT530	All-in-one weather transmitter, rain, wind, temperature, humidity, air pressure	Serial

SECURITY VIDEO SURVEILLANCE

Axis Communications Q1615-E MkII	High-speed outdoor network surveillance camera	HTTP/HTTPS
Axis Communications Q6052-E PTZ	Outdoor-ready PTZ with 36x zoom, focus recall and Lightfinder	HTTP/HTTPS

COMPATIBILITY LIST - 2/2

INDUSTRIAL AUTOMATION

Phoenix Contact	QUINT-UPS 24	Modbus-RTU
SferaLabs Strato Pi Mini Board	Power supply, with surge and reverse polarity protection and realtime clock	Raspberry PI 3B,3B+,4
SferaLabs Strato Pi Base Board	Power supply, with surge and reverse polarity protection, realtime clock and RS-232, RS-485	Raspberry PI 3B,3B+,4
SferaLabs Strato Pi UPS Board	Power supply, realtime clock, RS-232, RS-485, integrated uninterruptible power supply, with external lead-acid 12V battery	Raspberry PI 3B,3B+,4

MEMORY CARDS

Transcend High Performance 330S	64GB MicroSDXC memory card	A2, V30, U3
Transcend High Endurance	64GB MicroSDXC memory card	UHS-I U3 / C10
Transcend Ultimate 633x	64GB MicroSDXC memory card	UHS-I U3 / C10
<small>RECOMMENDED</small> SanDisk High Endurance	64GB MicroSDXC memory card	V30, UHS-I U3
SanDisk Extreme Plus	64GB MicroSDXC memory card	A2, V30, U3
SanDisk Extreme Pro	64GB MicroSDXC memory card	A2, V30, U3

CABLES AND AUXILIARES

FTDI Chip USB-RS485 Converter Cable	FT232R	USB RS485
--	--------	-----------

PRICING

Kronometrix IoT Gateway is available as a software image, compatible with Raspberry PI 3B/3B+ single-board computers. Includes 1 year, 8x5 standard support. Additional maintenance and support packages can be purchased from sales@kronometrix.com

ITEM	DESCRIPTION	TYPE	PRICE
Media	Kronometrix IoT Gateway Software Image 64GB, 100DS license included	Annual Commitment	249 € / month
Standard Support	Standard Support Monday - Friday, 9AM-5PM, including phone and email. SLA 24 hours	1 Year	
	Installation and setup. Technical support (Email, Phone) to deploy and use Kronometrix IoT gateway		
	10 Incident cases per month	Included	
	1 Year Software updates	Included	
Premium Support	Premium Support 24x7, including email, phone, video chat. SLA: 6 hours		
	Remote access to check and maintain your Kronometrix IoT Gateway installation		
	100 Incident cases per month	Optional	29,95 € /DS /month
	Live private support channel (Skype, Wire, VoIP)		
Embedded systems	Integrate and deploy Kronometrix IoT Gateway to other systems or setups	Optional	Call us

Please note that the prices are exclusive of value added tax. For large installations, please [contact us](#) for more information.

Annual Commitment: the period of time you plan to use the product, minimum 1 year. You can cancel anytime, but you need to pay up to 1 year. Billed every month. The term **Data Source** ("DS", "ds") means any system connected to a public or private network with a valid IPv4 or IPv6 address being a server, a data logger, a graphic workstation, or a sensor bound to a single Kronometrix data subscription.



Kronometrix IoT MicroSDXC card



Kronometrix IoT Gateway



Wireless Connectivity 802.11b/g/n



Bluetooth Low Energy 4.2