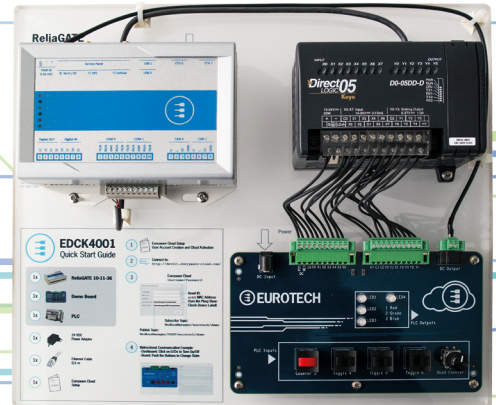# EDCK 4001

- **For Embedded, IT and OT Developers**
- **Hands-on Learning**
- **Preinstalled End-to-End IoT Application**
- **Simulation of Industrial Use Cases**
- **All-inclusive and Ready to Go**

EDC ESF Java POWERED

FEATURES

Production Grade - Leverages production-grade hardware, software and services to provide a familiar development environment to Embedded, IT and OT developers

Hands-on Learning - Shows every building block of a sophisticated IoT/M2M application, how to create a bidirectional connection with the Cloud and how to do remote management

Preinstalled IoT Application - Provides a real-world example where a Gateway and a PLC are used to create a link between the Cloud and the Field

Simulation of Industrial Use Cases - Includes support for ModBus and a PLC, it is designed to be expandable beyond the included example, and to interface with other user devices

All-inclusive and Ready to Go - Packages HW, SW, a Cloud license and accessories to get started immediately

The EDCK 4001 is a Development Kit for Everyware Device Cloud that provides a learning enviroment and a testbed for IoT/M2M applications; it targets professional developers with an Embedded, IT or OT background.

Creating an End-to-End solution typically requires bridging Field devices with Cloud-based services; the EDCK 4001 replicates a complete scenario, in which the field devices are simulated by a panel that provides some data sources and receivers (buttons, LEDs, etc). The bidirectional data and command flow between the Cloud and the Field is managed by a Gateway, which is connected to a PLC that controls the panel.

The preinstalled IoT application shows how to implement a complete solution, including remote device management and OTA package deployment.

The EDCK 4001 includes a ReliaGATE 10-11, Eurotech's IoT Gateway for industrial applications based on the TI AM335X Cortex-A8 (Sitara) processor family, with 512MB of RAM, 4GB of eMMC and a user-accessible microSD slot.

The ReliaGATE 10-11 comes with a genuine Oracle Java SE Embedded 8 Virtual Machine and Everyware Software Framework (ESF), a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/OSGi middleware for IoT gateways.

Distributed and supported by Eurotech, ESF adds advanced security, diagnostics, provisioning, remote access and full integration with Everyware Cloud (EC), Eurotech's IoT integration platform.

A trial EC license is also included, providing advanced services like data retention and retrieval, analytics, dashboarding, VPN and device management, including OTA updating.

EDCK 4001 also includes a professional Reactive Blocks™ by Bitreactive trial license, a visual tool for developing reactive or event driven applications for IoT/M2M or other embedded systems.

EUROTECH
Imagine. Build. Succeed.

EDCK 4001
Specifications

Ordering code: REGATE-10-11-36-DK00

GATEWAY		
PROCESSOR	CPU	TI AM3352 800MHz, 1 core
MEMORY	RAM	512MB DDR3
STORAGE	Embedded	4GB eMMC, microSD Slot (User Accessible)
I/O INTERFACES	Ethernet	2x 10/100Mbps
	USB	3x Host 2.0 (Noise and Surge Protected)
	Serial	2x RS-232/RS-485 (Surge protected, RS-485 termination and Fail-safe Resistors) - 1x Serial Console TTL
	CAN 2.0B	2x CAN bus with 5V (100mA) Power Out
	Digital I/O	2x Digital Input 5V (TTL), 1KV optoisolated - 2x Digital Output (40VDC), 30mA sink
RADIO INTERFACES	Cellular	Optional with ReliaCELL
	GPS	Optional with ReliaCELL
	Wi-Fi / BT	b/g/n, BLE
POWER	Input	9-36VDC, with Transient Protection, Vehicle Ignition Sense
	Consumption	2W Idle (15W Max)
OTHER	RTC	Yes (User Accessible Battery)
	Ext. watchdog	Yes
	Sensors	Temperature, Accelerometer
	LEDs	1x Power, 4x Programmable
	Buttons	1x Reset, 1x Programmable
	SIM slot	No

GATEWAY SOFTWARE	
OS	Yocto Linux 1.6 – Kernel 3.14
SDK	Yocto-based Eclipse Tooling
IoT FRAMEWORK	Oracle Java SE Embedded Version 8 - Everyware Software Framework (Java/OSGi)

TRIAL LICENSES	
CLOUD	Everyware Cloud Trial License
SDK	Reactive Blocks by Bitreactive Trial License

ACCESSORIES	
PLC	DirectLOGIC DL05
DEMO BOARD	1x Momentary Button, 3 ON/OFF Buttons, 3x LEDs, 1x RGB LED, 1x Quad Counter
POWER SUPPLY	24VDC Power Supply Unit at 24W
	Power Blades for Wall Mount Adapter (US, JP, EU, UK)
ANTENNAS	Internal Dipole Wi-Fi / Bluetooth (2,4 / 5 GHz) Antenna with RP-SMA connector
DATA CABLES	Ethernet cable (0.5m) with RJ45
	USB to Serial TTL Cable converter (Debug Port)
MOUNTING	Wall Mount Bracket (Aluminum)

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