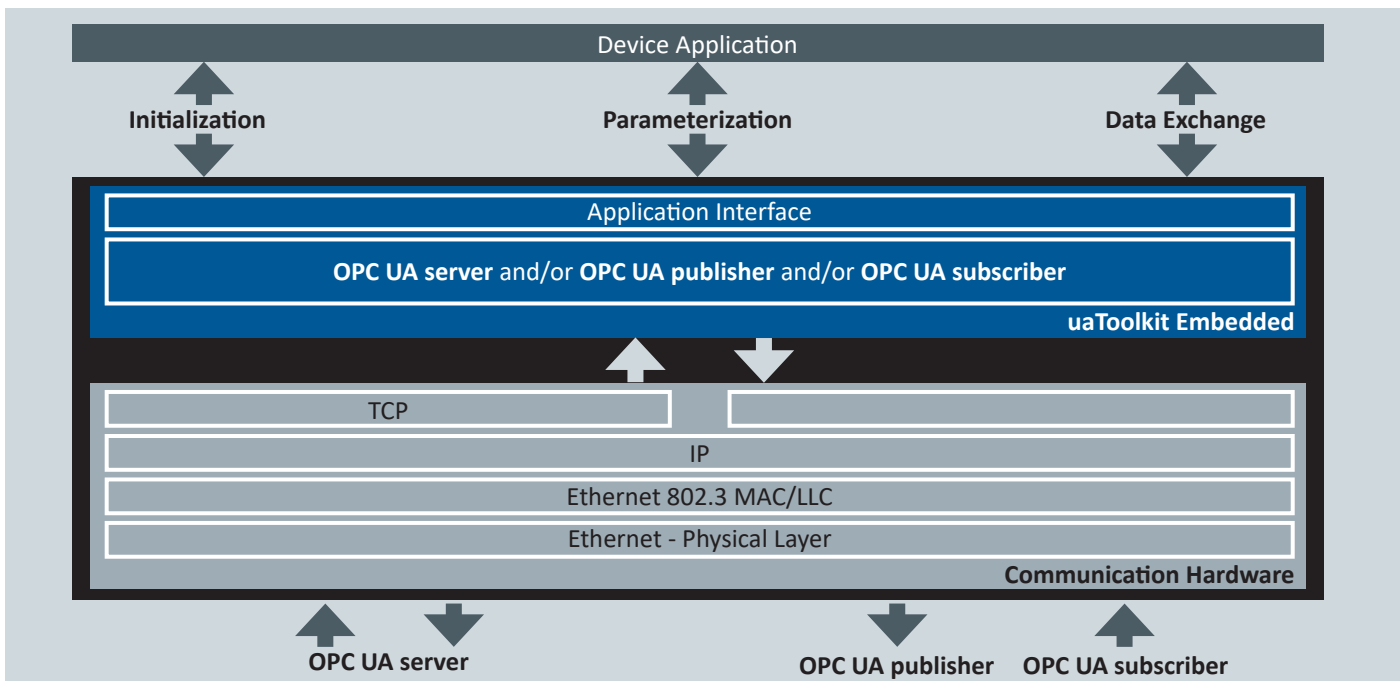


# uaToolkit Embedded

Development of embedded OPC UA applications with client/server and publisher/subscriber communication

- Get OPC UA into your device – fast and easy
- Optimal total costs of ownership through outstanding license model
- Proven compliance and interoperability
- Platform independent implementation with small memory footprint



## Embedded OPC UA applications with OPC UA publisher/subscriber communication

- Support of OPC UA client/server and/or OPC UA publisher/subscriber communication
- OPC Foundation Lab certified conformance with Nano Embedded Device Server Profile, Micro Embedded Device Server Profile und Embedded UA Server Profile of the OPC Foundation
- Support of OPC UA Events and Alarms & Conditions
- Easy support of OPC UA companion specifications by code generation from Nodeset files
- Allows OPC UA information modelling with Siemens SiOME and other tools

## Outstanding license model

- Risk-free implementation of OPC UA applications thanks to 3 years' right to updates to future versions of the toolkit
- All supported features and platforms are included
- Free deployment of OPC UA enabled applications without any restrictions

## Multiple platform support

- Portable ANSI C source code compatible for every operating system with IP stack and inter-process synchronization
- Operating system layers for FreeRTOS, Linux, eCos, Windows and  $\mu$ ITRON (provided by our partner Anotherware)
- Suitable for platforms: From ARM Cortex-M3, Microchip PIC32, Espressif ESP32, Renesas RX64M to ARM Cortex-A, Intel ATOM E

## Designed for resource efficiency

- Modular design to scale OPC UA functionality according to actual requirements
- 245 KB toolkit code (including static data) / 50 KB runtime data for implementing Nano OPC UA server
- 135 KB toolkit code (including static data) / 15 KB runtime data for implementing OPC UA publisher

# uaToolkit Embedded

## Technical Data

OPC specifications	OPC Unified Architecture V1.03, V1.04, V1.04 Amendments 1, 3, 5, 7 and 11	
OPC UA roles	OPC UA server, OPC UA publisher, OPC UA subscriber	
OPC UA server profiles		Nano Embedded Device Server Profile, Micro Embedded Device Server Profile, Embedded UA Server Profile
OPC UA access types	Data Access Alarms & Conditions	
OPC UA transports	Client/server:	UA-TCP, UA-SC, UA-Binary
	Publisher/subscriber:	UADP-UDP
OPC UA security	Security Policies:	None, Basic128Rsa15, Basic256, Basic256Sha256, Aes128_Sha256_RsaOaep, Aes256_Sha256_RsaPss
	Authentication:	Anonymous, Username/password
OPC UA services	FindServer, GetEndpoint, OpenSecureChannel, CloseSecureChannel, CreateSession, ActivateSession, CloseSession, Browse, BrowseNext, TranslateBrowsePathsToNodeIds, Read, Write, Call, CreateMonitoredItems, ModifyMonitoredItems, SetMonitoringMode, DeleteMonitoredItems, CreateSubscription, ModifySubscription, SetPublishingMode, Publish, Republish, DeleteSubscriptions	
OPC UA node classes	Variable, VariableType, Object, ObjectType, ReferenceType, DataType, Method	
Programming interface	C	
Target operating systems	Portable ANSI C source code compatible for every operating system with IP stack and inter-process synchronization Delivered platform layers: FreeRTOS, Linux, eCos, Windows Partner-supported platform layers: µITRON, Nucleus	
Security	Supported libraries: OpenSSL, mbedtls	
Trial version	Full featured toolkit for Windows, PC Linux und Raspberry Pi Linux. The running time is limited to 90 minutes.	
Toolkit features	OPC UA companion specification support with Nodest code generation tool. Store address space nodes in flash memory. Scalar built-in datatypes, one dimensional arrays, custom structured data types and enumerations.	
Licensing	Single seat developer license Free deployment of OPC UA enabled applications without any restrictions. All features and platforms included.	

## Scope of Delivery

Software	Installation archive available for download
Support	Dedicated support team
Documentation	English PDF manual available for download

## Order Numbers

LDA-DD-032292	uaToolkit Embedded, source code, single seat developer license
LMA-DD-032292	3-year maintenance agreement for uaToolkit Embedded

## Additional Products and Services

SEA-DD-032400	uaToolkit Embedded engineering day
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