

RUT301 OPC UA Server

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The information in this page is updated in accordance with firmware version [RUT301_R_00.07.08.2](#).

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Summary

OPC Unified Architecture (**OPC UA**) is a cross-platform, open-source, IEC62541 standard for data exchange from sensors to cloud applications developed by the OPC Foundation. The *UA* in OPC UA stands for “Unified Architecture” and refers to the latest specification of the standard. It differs from its predecessor in that it is platform-independent, moving away from COM/DCOM to purely binary TCP/IP or alternatively SOAP.

This manual page provides an overview of the OPC UA Server in RUT301 devices.

Note: OPC UA Server is additional software that can be installed from the **System** → [Package Manager](#) page.

OPC UA Server Configuration

The **OPC UA Server Configuration** section is used to enable the local OPC UA server.

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Field	Value	Description
Enable	off on; default: off	Enables OPC UA server.
Port	integer [1..65535]; default: none	Service port.

OPC UA Server variables

All **RUTOS** device variables are described in the table below:

Note: All the variables have these qualities in common:

- Namespace index is 1
- Node ID type is string
- Read-only
- Updated upon request

	ID	Type	Description
sys_uptime		UINT32	System uptime in seconds.
sys_serial		String	Device serial number.
sys_devname		String	Device name.
sys_devcode		String	Device code.
sys_version		String	Firmware version.
sys_hostname		String	Hostname.
lan_mac		String	LAN MAC address.
lan_ip		String	IP address of LAN interface.
lan_mask		String	Subnet mask of LAN interface.
lan_gateway		String	Gateway IP address of LAN interface.
lan_dns		Array of String	IP addresses of LAN interface DNS servers.
wan_ip		Array of String	IP address of WAN interface.
io_dio_dir		Array of BOOL	Directions of digital input/output pins. 0=IN, 1=OUT.
io_dio		Array of BOOL	Values of digital input/output pins.