

RUTX10 OPC UA Server

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The information in this page is updated in accordance with firmware version [RUTX_R_00.07.07.3](#).

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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 RUTX10 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.



| 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_din | | Array of BOOL | Values of digital input pins. |
| io_dout | | Array of BOOL | Values of digital output pins. |