# RUTX50 OPC UA Server



The information in this page is updated in accordance with firmware version **RUTX_R_00.07.07.1**.

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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.

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This manual page provides an overview of the OPC UA Server in RUTX50 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. |
| gps_fix_status | UINT32 | Whether a GPS connection has been acquired. |
| gps_timestamp | UINT64 | UTC timestamp. |
| gps_longitude | DOUBLE | Longitude. |
| gps_latitude | DOUBLE | Latitude. |
| gps_altitude | DOUBLE | Altitude. |
| gps_angle | DOUBLE | Angle. |
| gps_speed | DOUBLE | Speed. |
| gps_accuracy | DOUBLE | Accuracy. |
| gps_sat_count | UINT32 | Satellite count. |
| mob_modem_count | UINT32 | Modem count. |
| mob_modem_imei | Array of String | Modem IMEI. |
| mob_modem_serial | Array of String | Modem serial number. |
| mob_modem_mnf | Array of String | Modem manufacturer name. |
| mob_modem_model | Array of String | Modem model name. |

| | | |
|---|---|---|
| mob_modem_fw | Array of String | Modem firmware version string. |
| mob_modem_temp | Array of FLOAT | Modem temperature. |
| mob_sim_count | Array of UINT32 | SIM count. |
| mob_sim | Array of UINT32 | Selected SIM. |
| mob_sim_state | Array of String | SIM state. |
| mob_sim_iccid | Array of String | SIM ICCID. |
| mob_rssi | Array of INT32 | RSSI. |
| mob_conn_type | Array of String | Data carrier type. |
| mob_conn_state | Array of String | Connection state. |
| mob_net_state | Array of String | Network link state. |
| mob_operator | Array of String | Operator name. |