CAN-OPCUA

CAN to OPC UA Gateway for Industrial Communication

Simplified Access to CAN Data
- *Integration into OPC UA applications via an embedded server*
- *Ready-to-use signal values through local decoding and scaling*
- *Reduced configuration effort through DBC file import*

Standalone Integration of CAN Systems
- *No additional industrial PC needed for gateway operation*
- *Local data processing within an embedded device*
- *Space-saving installation with a compact DIN rail housing*

Reusable Configuration for Different CAN Networks
- *One gateway for monitoring CAN data, CANopen PDOs and J1939 PGNs*
- *Configuration with standard OPC UA clients*
- *Repeatable deployment through configuration export and import*



CAN Data for Higher-Level Applications
Simplified integration into visualization and data acquisition systems, enabled by local CAN CC processing and an integrated OPC UA server.

Reduced Signal Configuration Effort
DBC import or individual signal configuration provides named, typed OPC UA variables with local decoding, scaling and offset processing.

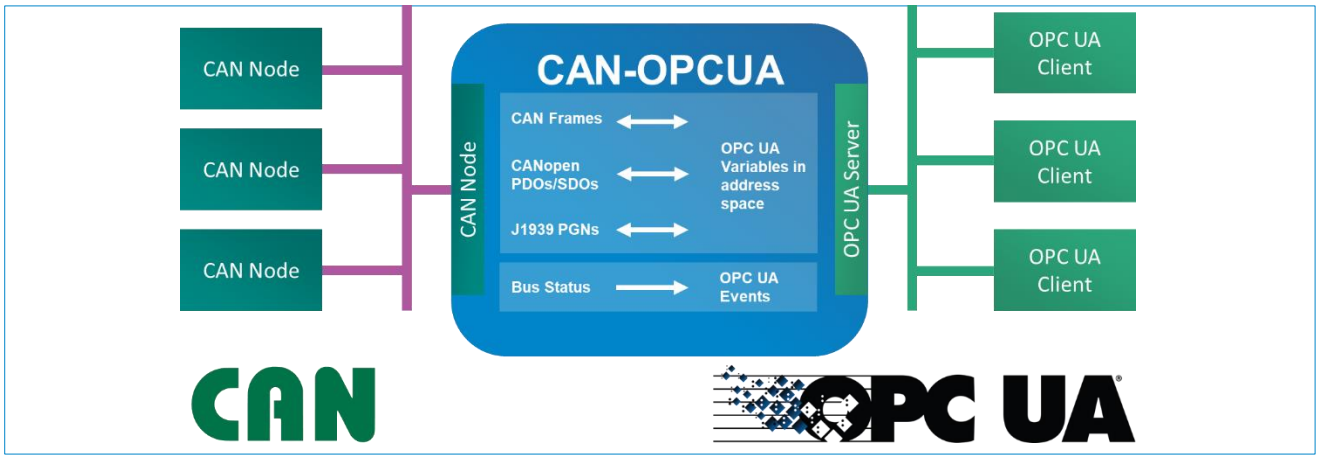
Access to CANopen and J1939 Data
OPC UA access to CANopen PDOs, status and EMCY information, plus J1939 PGNs with BAM handling and passive CMDT monitoring.

Configuration and Diagnostics with Standard Clients
Standard OPC UA clients simplify configuration, diagnostics and configuration reuse. Dedicated methods enable CAN transmission and coordinated SDO access for commissioning and service.

Controlled Access to Data and Functions
Configurable permissions restrict access. OPC UA signing, encryption and certificate management support protected communication when appropriately configured.

Related Product CAN-OPCUA-FD
CAN FD applications are supported by the CAN-OPCUA-FD, also compatible with CAN CC. A separate datasheet is available.

This product is under development.
It will be available Q4 2026.
All data specified here are preliminary and may be subject to change!



Technical Specifications:

OPC UA:	
Stack	*open62541*
Compatibility	*According to Specification v1.04*
Protocols	*OPC UA TCP transport with UA Binary encoding*
Interfaces:	
CAN	*ISO 11898-1, up to 1 Mbit/s*
Ethernet	*2x Ethernet, 10/100 Mbit/s, RJ45*
General:	
Power supply voltage	*24 V ± 5%; I_{MAX} = 210 mA*
Ambient temperature	*0 °C ... +50 °C*
Dimensions	*22.5 mm x 99 mm x 114.5 mm*
Connectors	*CAN: 5-pin connector, 3.81 mm pitch* *Ethernet: 2x RJ45* *Power: 4-pin connector, 5.0 mm pitch*
Weight	*130 g*

Order Information:

Hardware		*Order No.*
CAN-OPCUA	*CAN to OPC UA Gateway for DIN rail mount*	*C.2925.02*
Accessories		
CAN-Cable-S, 0.3 m	*CAN cable, length 0.3 m, 1x DSUB9 socket and 3 wire end sleeves, performance level 3, metallized plastic housing*	*C.1323.04*
Related Products		
CAN-OPCUA-FD	*CAN FD to OPC UA Gateway for DIN rail mount*	*C.2925.62*

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