

Communication Protocols

Communication protocols

The set of supported communication protocols is still being extended. Each of the protocol documentations describes the current state. You can find here information on configuration of communication lines, stations and I/O tags for individual protocols. Only some of the supported communication protocols are described in the on-line help. Documentation of the others is available on demand.

Communication protocol	Operating system	Line category	Advanced Protocol	Redundancy support	Destination column
ABB SRIO X3.28	all	Serial, SerialOverUDP Device Redundant		Yes	
ABB Elektro	Win32	FILE I/O			
ABB SPA-Bus	all	Serial, SerialOverUDP Device Redundant		Yes	
Advantech ADAM 4000 Series	all	Serial, SerialOverUDP Device Redundant		Yes	
Advantech ADAM 5000 DeviceNet	Win32	API			
Advantech Data Acquisition Card	Win32	API			
Allen-Bradley CSP/PCC (Client Server Protocol / Programmable Controller Communication Command)	all	TCP/IP-TCP		Yes	
Allen-Bradley DF1 Full Duplex	all	Serial, SerialOverUDP Device Redundant		Yes	
Allen-Bradley DH485	Win32	KMFB02 Allen-Bradley DH485			
Alfa Laval Combimass	all	Serial			
ALYA Gina	all	Serial, SerialOverUDP Device Redundant			
ALYA Lubrications	all	Serial, SerialOverUDP Device Redundant		Yes	
ALYA MMP	Win32	API			
ALYA SPOOL	Win32	Serial, SerialOverUDP Device Redundant			
ALYA VT200	all	TCP/IP-UDP		Yes	
AMiT ATOUCH32 DB-Net	Win32	API			Yes
AMiT ARION	all	Serial, SerialOverUDP Device Redundant			
ASCII Client/Server	all	Serial		Yes	
BACnet	LonWorks Win32, others all	TCP/IP-UDP, LonWorks, Serial, SerialOverUDP Device Redundant	Yes	Yes	
Contal CR	all	Serial, SerialOverUDP Device Redundant			
Datalogger ESC8800	all	Serial			
Datalogger ESC8816	all	Serial, SerialOverUDP Device Redundant, TCP/IP-TCP		Yes	
DDE Client	Win32	DDE client			
Diamo-L KOS/SOS	all	Serial, SerialOverUDP Device Redundant			
DLMS/COSEM	all	Serial, SerialOverUDP Device Redundant, MOXA IP Serial Library, TCP/IP-TCP, TCP/IP-TCP Redundant, MODEM	Yes	Yes	
DNP3	all	Serial, SerialOverUDP Device Redundant, MOXA IP Serial Library, TCP/IP-TCP, TCP/IP-UDP	Yes	Yes	
EDW LPEX V2.0	all	FILE I/O		Yes	
Elcor ELGAS Daniel	all	Serial, SerialOverUDP Device Redundant		Yes	
Elcor ELGAS-2 (CP II)	all	Serial, SerialOverUDP Device Redundant		Yes	
Ethernet/IP	all	TCP/IP-TCP	Yes	Yes	Yes
FAG SmartCheck	all	-		Yes	
Fisher-Rosemount RS3 RNI	Win32	API			
Fisher-Rosemount RS3 SCI	all	Serial, SerialOverUDP Device Redundant			

Generic User Protocol	all	Serial, Serial Line Redundant, Serial System&Line Redundant, MOXA IP Serial Library, TCP/IP-TCP, TCP/IP-TCP Redundant, SerialOverUDP Device Redundant, SerialOverUDP Line Redundant, SerialOverUDP System&Line Redundant,		Yes	
GPIO Protocol	only Linux on Raspberry PI and clones	API		Yes	
HART	all	Serial, SerialOverUDP Device Redundant, TCP/IP-TCP, TCP/IP-TCP Redundant		Yes	
Hivus	Windows	Serial, MOXA IP Serial Library			
Honeywell Excel C-Bus	Win32	KMFB02 Honeywell C-Bus			
Honeywell PCNM	Win32	API			
HOPF 7515	all	Serial, SerialOverUDP Device Redundant			
Hydrolab DATASONDE 4a	all	Serial			
ID-Innovations RFID ASCII	all	Serial, SerialOverUDP Device Redundant		Yes	
ID-Karta IdxAPI	Win32	API			
IEC 61850	all	TCP/IP-TCP	Yes	Yes	Yes
IEC 62056-21:2002 File I/O	Win32	FILE I/O	Yes	Yes	
IEC 62056-21:2002 Serial	all	Serial, SerialOverUDP Device Redundant, MODEM	Yes	Yes	
IEC 870-5-101 (balanced, unbalanced primary, unbalanced secondary)	all	Serial, Serial Line Redundant, MOXA IP Serial Library, SerialOverUDP Device Redundant, SerialOverUDP Line Redundant, SerialOverUDP System&Line Redundant	Yes	Yes	
IEC 870-5-104	all	TCP/IP-TCP, TCP/IP-TCP Redundant	Yes	Yes	
IEC 870-5-104 Server	all	TCP/IP-TCP	Yes	Yes	
IEC 870-5-104 Sinaut	all	TCP/IP-TCP Redundant	Yes	Yes	
IEC 60870-6 ICCP/TASE.2	all	TCP/IP-TCP, TCP/IP-TCP Redundant	Yes	Yes	
IND690	all	Serial, SerialOverUDP Device Redundant			
Incos/VUVT PMEL 04	all	Serial, SerialOverUDP Device Redundant		Yes	
IoT over LoRaWAN/Sigfox	all	SerialOverUDP Device Redundant, TCP/IP-TCP, FILE I/O	Yes	Yes	
Johnson Controls N2-Bus	all	Serial, SerialOverUDP Device Redundant, TCP/IP-TCP		Yes	
KMZ Lite Protocol KMZ Protocol	all	TCP/IP-TCP		Yes	
LFC (IEC 870-5)	all	Serial, TCP/IP-UDP, SerialOverUDP Device Redundant		Yes	
LonTalk	Win32	LONWORKS			
L&G ProfiBus	Win32	KMFB02 L&G ProfiBus			
L&G PRV Fugga	all	Serial, SerialOverUDP Device Redundant			
L&G Toccata	all	Serial, SerialOverUDP Device Redundant		Yes	
L&G Toccata via UNIP2	all	Serial, SerialOverUDP Device Redundant		Yes	
MDIS device	Windows	API			
MEN-SMB2 device	Windows	API			
MESIT Devices	all	ASYNC, SerialOverUDP Device Redundant			
Microtel 700	all	Serial, SerialOverUDP Device Redundant, TCP/IP-UDP		Yes	
MODBUS Client	all	Serial, SerialOverUDP Device Redundant, TCP/IP-TCP, TCP/IP-TCP Redundant		Yes	
MODBUS Server	all	Serial, SerialOverUDP Device Redundant, TCP/IP-TCP	Yes	Yes	
MODBUS Circutor CVMk	all	Serial			
MODBUS Codel DSU	all	Serial, SerialOverUDP Device Redundant			
MODBUS RTU Quad2000	all	Serial, SerialOverUDP Device Redundant		Yes	
MODBUS Telemecanique TSX	all	Serial, SerialOverUDP Device Redundant			
MODBUS Valmet Damatic RTU	all	Serial			

MODBUS SCT PPU	all	Serial, SerialOverUDP Device Redundant		Yes	
M-Bus Rev. 4.8	all	Serial, SerialOverUDP Device Redundant, MOXA IP Serial Library			
MT Printer	all	Serial, SerialOverUDP Device Redundant			
MQTT Client (Message Queue Telemetry Transport)	all	TCP/IP-TCP		Yes	
NMEA-0183	all	Serial, SerialOverUDP Device Redundant, File I/O		Yes	
OMV24	all	Serial, SerialOverUDP Device Redundant		Yes	
OneSoft devices	all	Serial, SerialOverUDP Device Redundant		Yes	
OPC Data Access 2.05 & Client	Win32	OPC Client	Yes	Yes	Yes
OPC Historical Data Access 1.20 Client	Win32	OPC Client	Yes		
OPC Unified Architecture Data Access Client	all	OPC UA Client	Yes	No	Yes
OPC XML Data Access 1.01 Client	all	OPC XML	Yes	Yes	
Orange GDEP	all	TCP/IP-TCP			
Paufex DIRAS	all	Serial			
Paufex DIRAS-B	all	Serial			
PCMBA/IEC870-FT1.2	all	Serial, SerialOverUDP Device Redundant			
PCMBA/IEC870-FT1.2 Scan	all	Serial, SerialOverUDP Device Redundant			
Plantscape ODBC	Win32	API			
Premex CALMEX II	all	Serial, SerialOverUDP Device Redundant		Yes	
Remia E3	all	Serial, SerialOverUDP Device Redundant, TCP/IP-UDP			
Remia KME	all	TCP/IP-UDP		Yes	
RFE	Win32	FILE I/O			
SAE RTU	all	Serial, SerialOverUDP Device Redundant, TCP/IP-TCP		Yes	
Servomex XENTRA 4900	all	Serial			
SHMU Data	all	MODEM			
Siemens SAPHIR	all	TCP/IP-TCP, TCP/IP-TCP Redundant			
Siemens SIMATIC 3964(R)	all	Serial			
Siemens SIMATIC RK512	all	Serial, SerialOverUDP Device Redundant			
Siemens SIMATIC S7 ISO on TCP	all	TCP/IP-TCP, TCP/IP-TCP Redundant	Yes	Yes	Yes
SMS gateway	all	MODEM			
SNMP	all	TCP/IP-UDP		Yes	
Telegyr 809 Server	all	Serial, Serial Line Redundant, Serial System&Line Redundant, SerialOverUDP Device Redundant, SerialOverUDP Line Redundant, SerialOverUDP System&Line Redundant, TCP/IP-TCP		Yes	
Teltonika Codec14	all	TCP/IP-TCP			
Transcon DAP 128TC	all	Serial, SerialOverUDP Device Redundant		Yes	
Trayport	Win32	---			
UNIP	all	Serial, SerialOverUDP Device Redundant		Yes	
VONSCH VQfrem 400	all	Serial, SerialOverUDP Device Redundant		Yes	
Wonderware Industrial SQL	Win32	API			
Wonderware InBatch API	Win32	API			
ZPA INMAT 64/65	all	Serial, SerialOverUDP Device Redundant			

ZPA INMAT 51/66	Win32, OpenVMS, Linux	Serial, SerialOverUDP Device Redundant		Yes	
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Related pages:

- [Server protocols - general implementation rules](#)
- [Communication with s I/O devices](#)