

Atlas Hydra

Multifunctional processing computer

Atlas Hydra presents gateway process computer comprising data concentrator and protocol converter functions. Built-in GPRS modem provides wireless communication using GPRS and/or SMS. Time and position information acquired from GPS/GLONASS enables Atlas Hydra to serve as time server.

Atlas Hydra provides reliable data acquisition from various devices using different communication directions and protocols. Collected and processed data can be visualised locally (HMI touchscreen) and/or sent to supervising server.

Technical characteristics

- Processor AM3358 1GHz ARM Cortex-A8
- 4GB 8-bit eMMC on-board flash storage
- 16GB micro SD card
- Simultaneous communication with 2 master SCADA/DCS centers
- 2 x RS-232/485 port (isolated)
- 1 x I2C & 1x CAN (isolated)
- Ethernet port 10/100Mbps
- Supported protocols:
 - IEC 61850 Client/Server
 - IEC 60870-5-101 Master/Slave
 - IEC 60870-5-102 Master
 - IEC 60870-5-103 Master
 - IEC 60870-5-104 Client/Server
 - MODBUS RTU i TCP Master/Slave
 - MODBUS TCP Client/Server
 - NTPv4 Server/Client
 - PTP (IEEE 1588) Master/Slave
 - IRIG-B (B002, B003, B006, B007) Generator/ Receiver
 - SPA Master
 - DNP3 Master/Slave
 - Hart Master
 - BACNET Master
 - GOOSE
 - NEO Master
 - FINS Master
 - DLMS
- GPRS protocols:
 - PPP/TCP/ UDP/ HTTP/ SSL
- Reception and distribution of exact time using NTP, PTP, unmodulated IRIG-B protocols, and GPS receive
- Creating PLC algorithm using Function Block Diagram environment
- Power supply: 9..36 VDC
- Power consumption: 10W
- Dimensions – 60 mm x 105 mm x 150 mm
- Aluminum case for DIN rail mounting

