HUSKY WinDCU – Software Protocol Gateway

WinDCU is a software gateway which can function as a protocol converter, data concentrator or a SCADA front-end. WinDCU is available for Windows and Linux x86/x64 platforms, and functions on commercially available off-the-shelf hardware.

Software Functions

Typically in an existing application, a variety of devices exist that operate on different and possibly proprietary protocols. In such cases, there is a general need to collate data from these devices and convert them to a standard protocol that a higher order system supports. WinDCU can thus function as a gateway to a substation or a front-end to a SCADA system.

In some applications, a change/upgrade in the control center system or communication network requires migration to a new protocol for communication between the field devices and a control center system. Often, such a change requires reconfiguration/ replacement of field devices to accommodate this change. Typical example of such a scenario is where older systems operating on IEC 60870-5-101 or DNP3.0 Serial protocol need to be upgraded to IEC 60870-5-104 or DNP3.0 LAN/WAN protocol.

WinDCU can also be used an M2M (Machine 2 Machine Communications) gateway for establishing secured communications with field equipment over wireless networks.
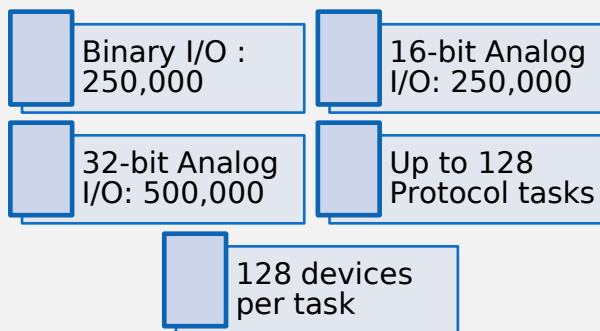
Protocol Support

Slave Protocols

- IEC 60870-5-101
- IEC 60870-5-104
- DNP 3.0 Serial/TCP
- Modbus RTU/TCP
- RP570
- DLMS Server
- IEC 61850 MMS Server
- OPC UA Server

Master Protocols

- IEC 60870-5-101
- IEC 60870-5-104
- IEC 60870-5-103
- DNP 3.0 Serial/TCP
- Modbus RTU/TCP
- IEC 61850 MMS
- SPA Bus Interface
- Alstom Courier
- DLMS/COSEM Client HDLC/TCP

Design Capacity

- Binary I/O : 250,000
- 16-bit Analog I/O: 250,000
- 32-bit Analog I/O: 500,000
- Up to 128 Protocol tasks
- 128 devices per task

Features

- Supports up to 1,000,000 points
- Translate between any supported protocol
- IEC61131-3 Logic Support
- Sequence of Events recording
- Retentive storage for events (500,000 events)
- Supports reporting by exception
- Supports Select-before-Execute operation
- Time-Synchronization of subordinate devices
- Supports file transfer
- Protocol trace capturing
- Active-Standby Configuration for HA
- Cyber Security: TLS VPN, Audit Logging, RBAC
- HUSKY Studio based configuration
- SNMP Monitoring
- In-built web-server for diagnostics and monitoring

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