# Modbus Plus Slave - EtherCAT Slave

The Anybus X-gateway copies I/O-data in both directions thus enabling data exchange between the two networks. Default I/O configuration is 20 bytes Input and 20 bytes Output. Changing default settings is very simple and is carried out using the RS232 configuration port and a standard terminal interface on a PC, such as Hyper Terminal for Windows.

The Modbus Plus interface is based on licensed chip-set and software from Modicon Inc. Supporting both the Global Database and Register mapping to 3x and 4x registers this module implements a versatile Modbus Plus interface. The Modbus Plus interface module is certified by the Modconnect and has proven conformance and interoperability with leading PLC´s, HMI´s etc

The EtherCAT Slave Interface for the Anybus X-gateway implements CANopen over EtherCAT, and exchanges up to 512 bytes of data in each direction. The interface acts as a slave node, which means it can be accessed by an EtherCAT master, but it will not initiate communication by itself.
The module has two RJ45 connectors using 100 Mbit full duplex Ethernet. For configuration a XML-format device despription file is supplied by HMS.

| KEY FEATURES |
| --- |
| ■ Modbus Plus Global Data Base Transaction, Point-to-Point commands, Read holding registers, Preset single register |
| ■ Modbus Plus Host Firmware Rev. 77 |
| ■ EtherCAT interface supports CANopen objects SDOs and PDOs |
| ■ Up to 512 bytes of cyclic data in each direction (PDO) |
| ■ Up to 512 bytes of acyclic data in each direction (SDO) |
| ■ EtherCAT interface is DS301 v4.02 compliantv |

| TECHNICAL SPECIFICATIONS | |
| --- | --- |
| Size: | 126 mm x 110 mm x 42 mm |
| Power Supply: | 24 VDC (±10%) |
| Temperature: | 0-65°C |
| Current Consump: | max 300 mA |
| I/O Input: | Default 20 bytes, max 512 bytes (max 64 bytes as Modbus Plus Global Data) |
| I/O Output: | Default 20 bytes, max 512 bytes (max 64 bytes as Modbus Plus Global Data) |
| Mech Rating: | IP20/Nema1 |
| Config Method: | Windows Hyper Terminal |
| UL certification: | E203225, Listed 67AM, UL-1604 Class 1, Div 2, GP A, B, C, D, Temp Code T4 |
| ATEX certification: | ATEX 135419, II 3 G, EEx nL IIC T4, DEMKO 03 |
| Power supply connect: | 2-pole 5.08 mm Phoenix pluggable screw connector |
| Modbus Plus baudrate: | 1 Mbit/s |
| Modbus Plus address: | Node-ID and Source-ID 1-64 |
| ModbusPlus connector: | D-sub 9-pin female |
| EtherCAT baudrate: | 100 Mbit/s |
| EtherCAT connector: | RJ45 |
| EtherCAT config: | Configured by EtherCAT Master via XML file (provided by HMS) |
| Price Group: | C |
| Order Code: | AB7693 |