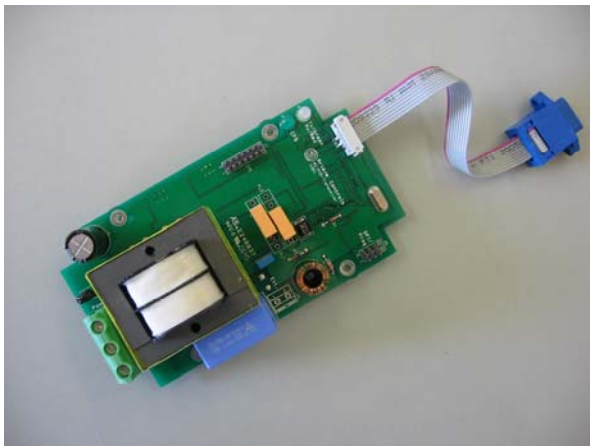


## AC-MIO-RS232 Powerline Transceiver



### OVERVIEW

The AC-MIO-RS232 is a powerline transceiver that allows interfacing with an external device via an RS-232 port. No configuration is necessary; once the transceiver receives data by RS-232 or powerline, the device send it out at the other end.

The unit is designed as a complete transceiver. It integrates the highly reliable powerline modem PLM-1, an ATmega microcontroller, an RS-232 interface, a powerful analog front end with a versatile coupling unit and the power supply. The device is provided with a DB-9 adapter cable for RS-232 communication.

This board is ideal for testing the Ariane Controls technology in a wide range of powerline communication applications. The Ariane Diagnosis Tool software provides an easy way to use the AC-MIO-RS232 transceiver with a PC.

### FEATURES

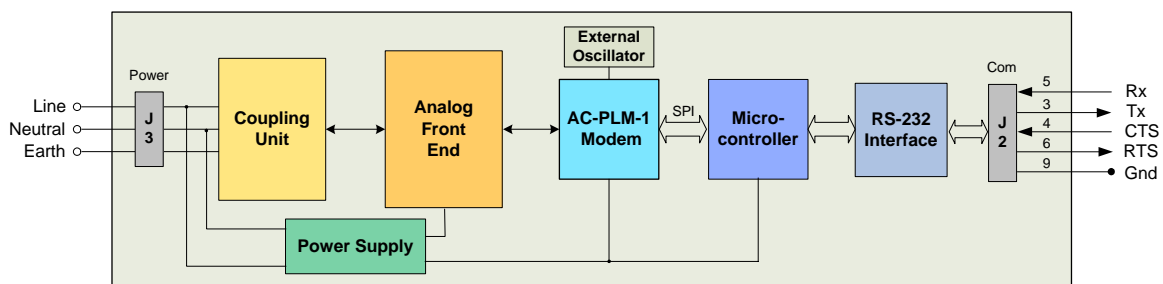
- Provides reliable powerline communication in high attenuation and noisy electrical environments
- Uses very robust narrowband FSK modulation technique including advanced processing functions
- Includes LED indicators for CFG, CPU and Tx/Rx
- Built-in RS-232 interface
- Small form factor
- Compliant with ICES-006 Industry Canada standard
- RoHS compliant
- Easy-to-use test software available

### SPECIFICATIONS

- Operating voltage: 115/230VAC, 50/60Hz
- PLC frequency: 262kHz or 144kHz
- PLC bit rate: 2544bps or 2438bps
- Serial port parameters: 9600 8-N-1
- Dimensions (L x W x H): 133 x 72 x 42 mm

### APPLICATION EXAMPLES

- Remote automatic meter reading
- Industrial control
- Remote diagnostic
- Building automation
- Inter-device peer-to-peer networking



**AC-MIO-RS232 Powerline Transceiver Block Diagram**