



## **SaraAdSend Configuration File for Earthworm 7.2**

*Created Nov 16, 2007 by Larry Cochrane (Webtronics)*

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SARA electronic instruments s.r.l.

Via Mercuri 4

06129 PERUGIA

ITALY

Phone +39 075 5051014

Fax + 39 075 5006315

email: [info@sara.pg.it](mailto:info@sara.pg.it)

URL: [www.sara.pg.it](http://www.sara.pg.it)

EARTHWORM SADCXX MODULE

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## EARTHWORM SADCXX MODULE

### Overview

SaraAdSend is another digitizing program similar to ADsend for Earthworm. This module runs under Windows 2000 or XP and produces demultiplexed data to one of the transport data rings. This program was designed to work with the SARA RS-232 serial output Analog to Digital boards. This module was built using Microsoft Visual C++ 8.0. The program (SaraAdSend.exe) has been tested using Earthworm version 7.2.

### Configuration

Below is a typical SaraAdSend.d configuration file. This file should be located in the \earthworm\run\params directory. The ModuleId must be added to the earthworm.d file also located in this directory.

```
#
#           CONFIGURATION FILE FOR SARAADSEND
#           -----
ModuleId    MOD_SARAADSEND_A    # Module id of this instance of SaraAdSend
OutRing     WAVE_RING           # Transport ring to write waveforms to
CommPort    1                   # Comm port number
PortSpeed   38400               # Comm port baud rate, can be set to 9600, 19200, 38400 or
57600
#
#           CHANNEL CONFIGURATION
Nchan       3                   # Specify number of channels to record, can 1 to 8
ChanRate    100                # Sampling rate in samples per second, can be 5, 10, 20, 50,
100 or 200
#
#           TIMING INFORMATION
HeartbeatInt 15                 # Heartbeat interval in seconds
TimeoutNoSend 30                # Time in seconds before program will reset if no data from ADC
board
TimeoutNoSynch 60              # Not used
UpdateSysClock 0                # 1 = PC time updated with AD board time
HighToLowPPS 0                 # 1 = PPS signal direction is High to Low
TimeOffset   0                  # Time Reference offset in milliseconds
#
# Time Reference Types:
# 0 = Use PC Time, 1 = Garmin GPS 16 or 18, 2 = Motorola ONCORE NMEA,
# 3 = Motorola ONCORE Binary, 4 = WWV (must have WWV option on the ADC board )
#
TimeRefType  0                  # One of the types above
TimeFilePath c:\earthworm\     # where to place the time.dat file
#
#           OTHER INFORMATION
LogMessages  1                  # 1 = Log messages from DLL & ADC to log file
NoPPSLedStatus 0              # 1 = Disable 1PPS LED blinking
AdcDataSize  2                  # ADC trace buffer data size in bytes. Can be 2 or 4 bytes
#
#           SCNL (Station/Component/Network/Location) FOR EACH ADC CHANNEL
# Chan lines must follow the Channel Configuration lines in this file. There should
# be Nchan (see above) SCNL lines.
#
#   Chan  Station/Comp/Network/Location
#   -----
Chan  0    STA BHZ PN NC
Chan  1    STA BHN PN NC
Chan  2    STA BHE PN NC
#-----
#
```

## EARTHWORM SADCXX MODULE

### **File list**

Here the list of file distributed with the EW\_MODULE.ZIP file.

SaraAdSend.c	EW Module
SaraAdSend.h	Include file
SaraAdSend.desc	Additional description file
SaraUtils.c	Test utilities
mk.bat	batch file for make
makefile.nt	MakeFile
test.cpp	Test code
getconfig.c	
SaraAdSend.d	
SaraAdSend.exe	Binary Executable