

EASYCOMM reference information

The following are the specifications for the EasyComm interfaces which are available with the WiSP programs.

Both EasyComm 1 and EasyComm2 are available in WiSP32. Only EasyComm1 is available with WiSP31. The EasyComm interfaces are for use by those who wish to design their own radio and rotor controllers.

EASYCOMM I Standard

The EasyComm 1 standard is a simple ASCII character based standard for controlling antennas and rotators. The host PC issues a single line command as follows -:

AZaaa.a ELeee.e UPuuuuuuuuu UUU DNddddddddd DDD

The Az and El values (aaa.a and eee.e) are not fixed width. They are in degrees and include 1 decimal place. The Up and Dn frequencies are in Hz. UUU and DDD are the uplink and downlink mode.

EASYCOMM II Standard

The EasyComm 2 standard is an enhanced protocol to allow full station control and also feedback from external systems. The host PC issues commands to the controller by sending a 2 character command identifier followed by the command value.

Commands are separated by either a space or carriage return or linefeed. Not all commands need to be implemented, and the most basic system may only decode the rotator control commands. The Host PC can issue the following commands -:

Command Meaning Parameters

AZ Azimuth number - 1 decimal place

EL Elevation number - 1 decimal place

UP Uplink frequency in Hertz

DN Downlink frequency in Hertz

DM Downlink Mode as cii, eg SSB, FM

UM Uplink Mode as cii, eg SSB, FM

DR Downlink Radionumber

UR Uplink Radionumber

ML Move Left

MR Move Right

MU Move Up

MDMove Down

SASStop azimuth moving

SEStop elevation moving

AOAOS

LOLOS

OPSet outputnumber

IPRead an inputnumber

ANRead analogue inputnumber

STSet timeYY:MM:DD:HH:MM:SS

VERequest Version

For those commands that require a response, the response is an echo of the command followed by the response.

If the command specifies a fieldnumber (eq. AN or IP), then the two numbers are delimited with a comma.eg. To read an analogue value, the host sends ANx where x is the analogue channel number. In response the controller will reply with ANx,yyy where yyy is the value read on the analogue port.eg. To find the controller version number, the host sends VE. In response the controller sends VExxx where xxx is an ascii string containing the version number.

All strings sent in either direction are not of fixed length. The controller can also send unsolicited information back to the host. This information may be used by the host for alarms or just control feedback.

All of the above commands may be sent by the controller for information, and in addition the following may also be sent ALxxxAlarm, where xxx is an ascii string with the alarm info.

Chris Jackson, G7UPN

NOTE :

It is important to note that most EASYCOMM controllers builded never gave feedbacks to their applications.

Richard VE2DX