ARINC 429 Adapter

Male   Female

ARINC 429 In 1 - A
ARINC 429 In 1 - B
ARINC 429 In 2 - A
ARINC 429 In 2 - B
ARINC 429 Out - A

5   1

9   6

ARINC 429 Out - B   Spare grounds here may
                        be used for shield ground.

10-35 Vdc Aircraft Power   Red

Ground   Black

Female 9-pin d-sub

1   5

6   9

White/Blue   Expander Serial Output - to avionics serial input

White/Black   Expander Serial Input - to avionics serial output

This Male 9-pin d-sub mates with female connector on
the adapter for all ARINC 429 connections.
(This connector wiring is the same as connector C on
GRT Horizon HX and HXr display units.)

Serial Data Out   Yellow

Serial Data In   Brown

EFIS Display Unit

Configuring the EFIS

1. Using the Set Menu, "General Setup" pages, set "ARINC Module
Connected" to "Yes", and set the serial port to the EFIS serial port number
which the yellow and brown wire are connected to.

2. The ARINC 429 module also provides a serial input and output (expander).
This serial port should be used only when all EFIS serial ports are used. Max
baud rate is 19,200. Do not use for AHRS or GRT Servos.

Post-Installation Checkout

1. The serial port counter will not increment unless data is provided to the
ARINC module. Thus, to test the ARINC module, wire it to a device that
transmits ARINC 429 data, and verify the serial port counter changes.

2. If serial data is provided to the module, turn off the device that is providing
ARINC 429 data, turn on the device that is providing serial data, and verify
the serial port oounter is changing.

3. If the serial and/or ARINC 429 outputs are used, verify the devices using
this data are receiving the data.

Notes:

1. Mount the module to avoid water, fuel, and extreme heat.

2. Turn off power to the module adapter when not in use to avoid
discharging the aircraft's battery.

3. Wiring is shown to the connector that plugs into the adapter.

4. Current Draw is less than 0.2 amp. Power should be supplied to the unit
through a breaker of 5 amps or less. It is acceptable to share a breaker with
this and other equipment, provided that if the breaker opens, the loss of the
equipment powered by that breaker does not cause an issue with the safety
of flight.

ARINC 429 External Module
GRT Avionics, Inc.

ARINC 429 - External Module Single Board Rev A.cdr