EQCO400T Evaluation Module

The EQCO400T Evaluation Module is a 1394b Hub which is enhanced with the EqcoLogic EQCO 400T Equalizer chip on each of the twisted pair ports. This demonstrates proper 1394 signaling over extended 1394b bus cable lengths using standard CAT5e and CAT6 infrastructures.

The EqcoLogic EQCO 400T ([data sheet](#)) allows FireWire data at S400 speeds (500Mb/s) to be transmitted up to 90m over low cost UTP (Cat 5e/6) network cable. This compares with a transmission range limitation of [4.5m] on regular FireWire cable.

Evaluation Module Features

* (2) RJ-45 twisted pair ports
* EQCO 400T equalizers on each of the twisted pair ports
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* Cable pairs configurable via jumpers
* Carrier sense LED's on the twisted pair ports

* (1) 1394b port 9-pin connector
* The module can be powered from the 9-pin 1394 port, or with a 5-12V power supply.

* Texas Instruments TSB41BA3B 1394B-PHY
* PHY options configurable via jumpers (end-user configuration not required)

Data sheets and performance measurements available at:
http://www.tctechnologies.tc/products/eqcologic.html

Contact TC Applied Technologies for samples, EVM's and volume pricing.
http://www.tctechnologies.tc

A coaxial solution for 1394 applications is also available. The EqcoLogic EQCO 400T and single coax solution open up" long-haul" sound distribution applications in public performance, public address systems, recording studios and broadcast.