



DCB, Inc.
2949 CR 1000 E
Dewey, Illinois
61840

217.897.6600 Tel
800.432.2638 Toll Free
217.897.1331 Fax
www.dcbnet.com

DATA COMM FOR BUSINESS

AM3440 Propagation Delay Measurements
July, 2012

This summarizes propagation delay tests for

1. RS-232 through 8DBRA and 8RS232 cards using oversampling and async data at 56 and 64 Kbps.

A DCB BT1 test set was used at each end. **Delay is 3.9 ms round trip at 9600 bps, 3.3 ms round trip at 19,200 bps.**

2. E&M

An analog test set was used. A digital storage scope captured the input signal at one end and the output signal at the other end. The analog signal level was changed from -15 to 0 dB and back. The level change was captured and measured at **1.5 ms one way propagation delay, 3 ms round trip.**

3. T1 to T1 unit to unit.

Loop FAE measured propagation delay through a series of AM3440s connected in a ring. Total delay was measured using a DS1 test set/analyzed.

The unit to unit delay is **450 microseconds (0.45 ms) unit to unit, 0.9 ms round trip.**

