Accredited Standards Committee
X3, Information Processing Systems
Doc: X3T10.1/96a126r0
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Reply to: Bill Ham, DEC
To: X3T10.1 Membership
From: Bill Ham, DEC
Subject: Proposal to modify clause G. 1 (wiring board design)

## PROPOSAL

Replace Annex G clause G. 1 with the folloing proposal:

Sincerely,

Bill Ham
EXT PH: 508 841-2629

## G. 1 Guidelines for implementing printed circuit board design.

The terms used in this clause are defined as follows:
a) Line path: The electrical conductor between the port connector and the termination circuitry, commonly the termination resistor (seeError! Reference source not found.).
b) Line + path: The line path for the + signal.
c) Line - path: The line path for the - signal.
d) Stub: Any electrical path connecting to the line path but not part of the line path (SeeFigure G.2).

PRINTED CIRCUIT BOARD


Figure G. 1 - Line path definitions


Figure G.2- Stub examples
The following guidelines ${ }^{1}$ should be followed when desiging printed circuit boards using SSA.
a) Isolate other active signals from the line path on the printed circuit board.
b) Stubs should be minimized and not exceed 0,5 inch in length.
c) Capacitance to ground on stubs should be minimized.
d) Line + paths and line - paths should be laid out as 75 ohm single ended traces on one signal layer, preferably on top or bottom layers.
e) Isolate SSA ports from each other.

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[^0]:    ${ }^{1}$ Refer to Montrose, Mark I.,Printed Circuit Board Design Techniques for EMC compliance, IEEE press 1996 (ISDN 0-7803-1131-0) for more details

