Proposal for a Standardized MDI Test Board Interface

SMA Interface

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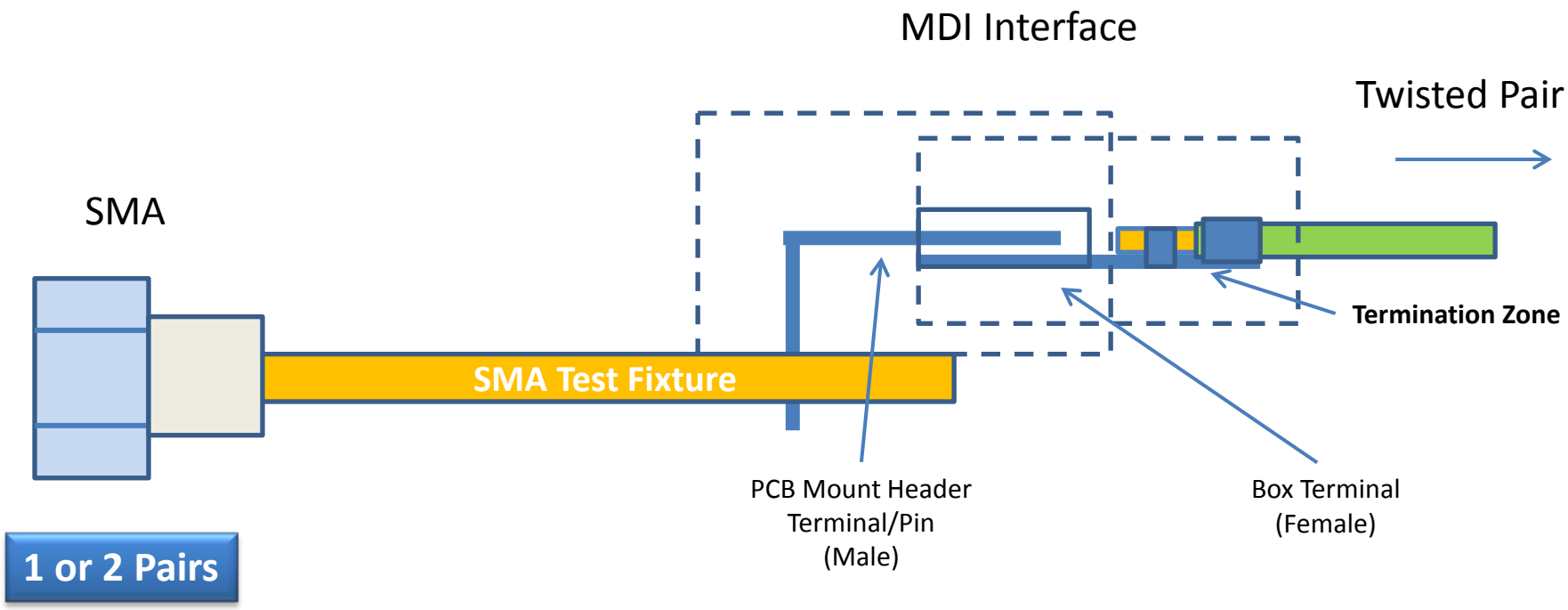
Benefits of standardized approach:

- Group charter is to not define the actual MDI connector but the way of testing various MDI's may not be well understood;
- Any MDI and associated Ethernet assemblies need to be evaluated by a wide range of supplies and OEM's alike;
- Evaluation of MDI's and Ethernet assemblies would be streamlined due to the interchangeable nature of standardized test board interface - regardless of who designs the test boards

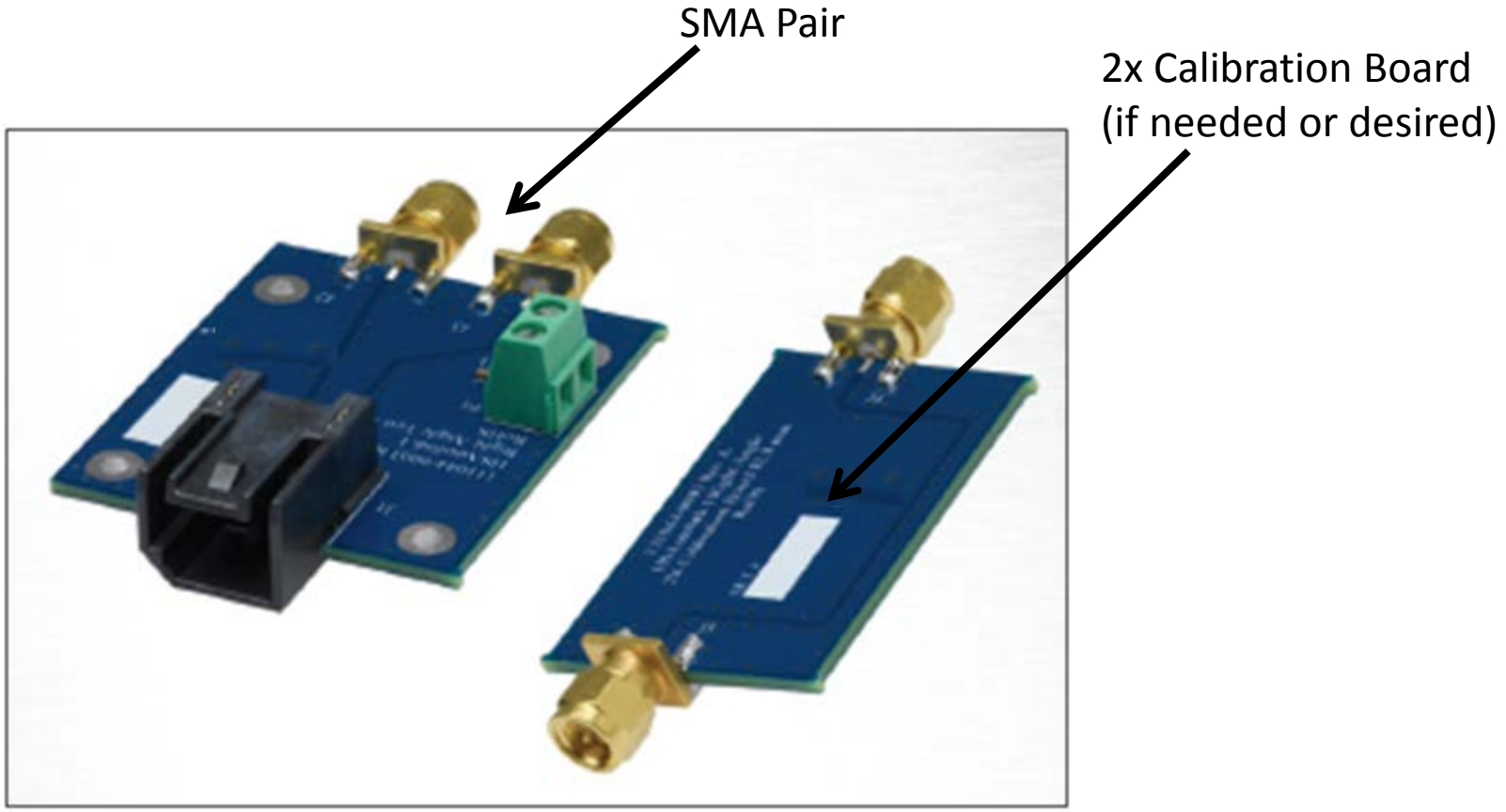
Proposed Standardized SMA Interface:

Diagram of test setup - side profile



Example:

Single Pair SMA test board for MDI evaluation



Standardized Requirements :

Proposed Standardized Features of the SMA Test Board for MDI Evaluation

- SMA center-to-center spacing? (suggesting 0.625 (5/8”));
- Define SMA connectors type;
- Define design practices and materials;
- Define test PCB stack-up;
- Trace design up to MDI launch;
- Explore possibility of Gerber file sharing for the standard optimized test PCB design.

Thank You!