



FEI US5G Dual Streaker Card ST-US5G Practice

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2 APPLICATION

The ST-US5G Dual Streaker Card provides a quick method to "streak", verify wiring via LED's, thru the FEI US5G backplane to their termination points. The ST-US5G also checks the backplane connections to the "Protect" slot. The Streaker Card is utilized by installers and audit (acceptance) personnel.

1 GENERAL

This practice provided by Telecom Assistance Group (TAG) describes the FEI US5G wiring verification method. This practice uses TAG's Dual Streaker Card (ST-US5G).

3 PROCEDURE

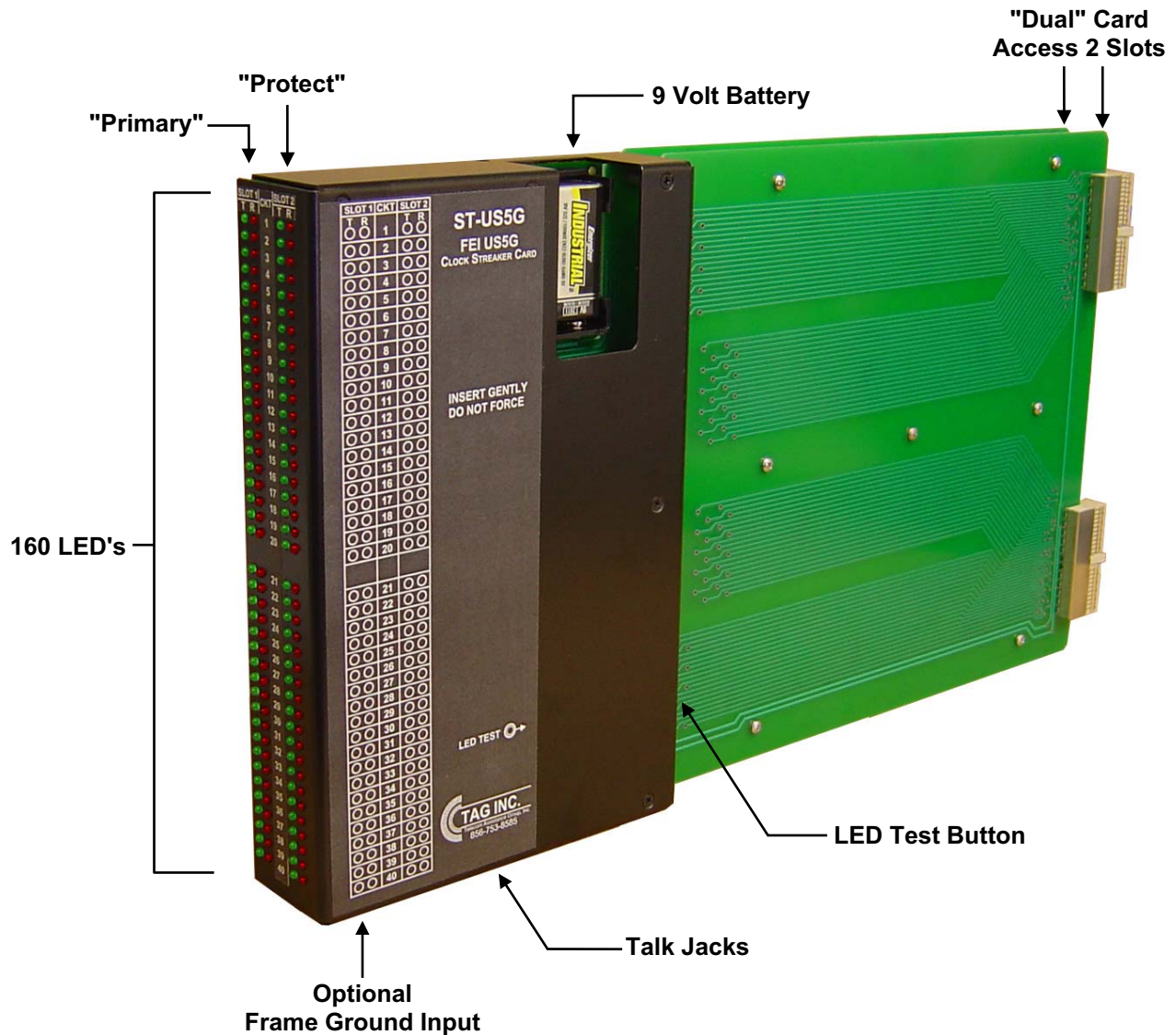
The test procedure typically requires two (2) people for ease of testing. Tester 1 will observe the LED's at the front of the FEI US5G Dual Streaker Card (ST-US5G). Tester 2 will connect a test probe to frame ground located at the FEI US5G termination point. Testing proceeds by grounding wires at the termination point with the probe and observing the associated lights illuminating.

Note: Each wire will light two lights, one for the "Primary" and one for the "Protect" slot.

See Page 3 for a Step-by-Step Test Procedure.

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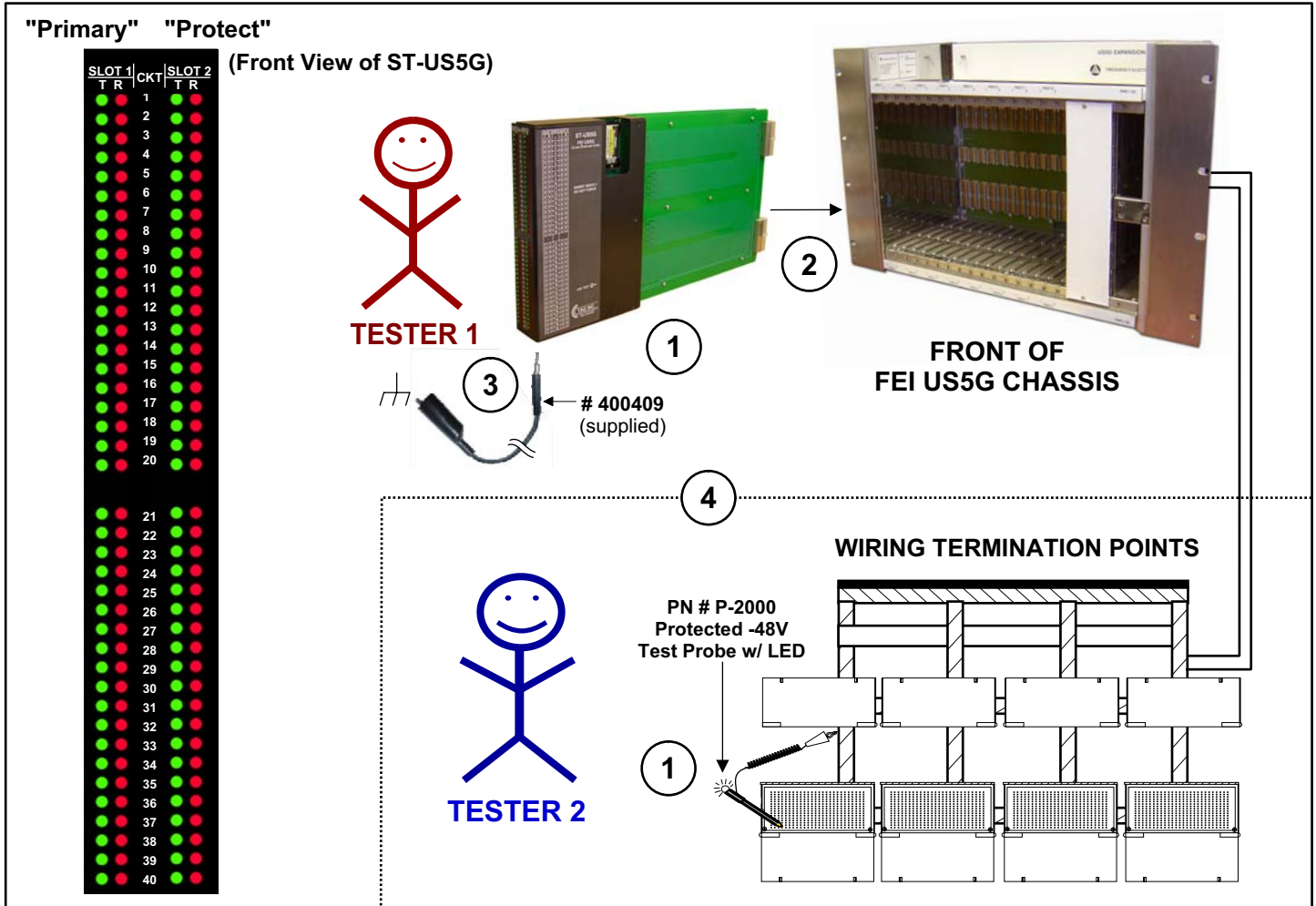
4 Physical Description and Wiring



The ST-US5G Dual Streaker Card provides a quick method to "streak", verify wiring via LED's, thru the FEI US5G backplane to their termination points. The ST-US5G also checks the backplane connections to the "Protect" slot. The Streaker Card is utilized by installers and audit (acceptance) personnel.

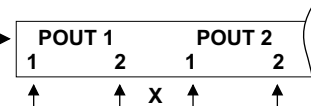
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5 Step by Step Test Procedure



TESTER 1 (FEI US5G Equipment)

1. Press the LED test button on the ST-US5G Dual Streaker Card and verify that all LED's illuminate. If the LED's do not illuminate, replace the battery.
2. Select a card slot to begin testing. Be sure to insert the ST-US5G into the proper slots 1 & 2 / POUT 1-8 (see diagram)
(CAUTION: Do not force. Verify proper alignment before inserting.)
3. If the chassis ground is not already connected through the backplane, insert the Pin Plug of the GND Cord (# 400409) into the ST-US5G and connect the Alligator Clip to Frame Ground.
4. Establish communication with **Tester 2** at the wiring termination point. You are ready to begin testing at the FEI US5G shelf (observe LED's illuminating & record results).
Note: Each wire will light two lights, one for the "Primary" and one for the "Protect" slot.



TESTER 2 (Frame)

1. Connect the Test Probe (P-2000) Alligator Clip to the Frame Ground. Use the probe to ground the wiring points. The LED on the probe will illuminate to indicate a connection to the ST-US5G Dual Streaker Card. The corresponding LED's on the ST-US5G will indicate which wire is being probed.

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6 Continuity Test Data Sheet

TABLE A. (P) Pass (F) Fail Tested by : _____ Shelf # : _____ Rack # : _____

Slot 1 "Primary"				
	Tip	Ring		
CK 1			CK 21	
CK 2			CK 22	
CK 3			CK 23	
CK 4			CK 24	
CK 5			CK 25	
CK 6			CK 26	
CK 7			CK 27	
CK 8			CK 28	
CK 9			CK 29	
CK 10			CK 30	
CK 11			CK 31	
CK 12			CK 32	
CK 13			CK 33	
CK 14			CK 34	
CK 15			CK 35	
CK 16			CK 36	
CK 17			CK 37	
CK 18			CK 38	
CK 19			CK 39	
CK 20			CK 40	

(P) Pass (F) Fail

Slot 2 "Protect"				
	Tip	Ring		
CK 1			CK 21	
CK 2			CK 22	
CK 3			CK 23	
CK 4			CK 24	
CK 5			CK 25	
CK 6			CK 26	
CK 7			CK 27	
CK 8			CK 28	
CK 9			CK 29	
CK 10			CK 30	
CK 11			CK 31	
CK 12			CK 32	
CK 13			CK 33	
CK 14			CK 34	
CK 15			CK 35	
CK 16			CK 36	
CK 17			CK 37	
CK 18			CK 38	
CK 19			CK 39	
CK 20			CK 40	

(P) Pass (F) Fail

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7 LED State Tables

TABLE B.

WIRE DESIGNATION	PRIMARY		PROTECT		EXPLANATION
	TIP green LED	RING red LED	TIP green LED	RING red LED	
TIP WIRE X X = CIRCUIT NUMBER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The Primary & Protect Tip LEDs both illuminate when wire continuity & the chassis connection are both GOOD .
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If only one LED illuminates, wiring is GOOD but the chassis connection between Primary & Protect is BAD .
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Multiple LEDs illuminated indicate shorted wiring. Any LEDs other than TIP in circuit X indicates incorrect wiring.
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	An open TIP wire is indicated if no LEDs illuminate when the TIP wire is probed.

TABLE C.

WIRE DESIGNATION	PRIMARY		PROTECT		EXPLANATION
	TIP green LED	RING red LED	TIP green LED	RING red LED	
RING WIRE X X = CIRCUIT NUMBER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The Primary & Protect Ring LEDs both illuminate when wire continuity & the chassis connection are both GOOD .
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If only one LED illuminates, wiring is GOOD but the chassis connection between Primary & Protect is BAD .
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Multiple LEDs illuminated indicate shorted wiring. Any LEDs other than RING in circuit X indicates incorrect wiring.
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	An open RING wire is indicated if no LEDs illuminate when the RING wire is probed.

TABLE D.

WIRE DESIGNATION	PRIMARY		PROTECT		EXPLANATION
	TIP green LED	RING red LED	TIP green LED	RING red LED	
NONE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LEDs illuminated without probing a wire indicate circuits that are shorted to earth (chassis) ground.