TAG INC.
Telecom Assistance Group, Inc.
800-824-7005

Ciena CNX-5PLUS Streaker Card
ST-CNX-5PLUS Practice

2 APPLICATION

The ST-CNX-5PLUS provides a quick method to "streak"- verify wiring via LED's from the Ciena CNX-5Plus backplane to the frame. At the frame simply ground the corresponding pins and the ST-CNX-5PLUS will light the LED associated with that connection. On powered shelves, two (2) LED's, (BATTERY A & B) are provided to indicate the presence of battery voltage.

The ST-CNX-5PLUS Streaker Card does not require a powered backplane to test POTS or DSL Wiring.

1 GENERAL

This practice describes Telecom Assistance Group's Streaker Card (ST-CNX-5PLUS) for use with the Ciena CNX-5Plus shelf. The ST-CNX-5PLUS is used during installations to quickly verify wiring continuity ("streak") from the Ciena CNX-5Plus Card Slots to the Frame. The Streaker Card has LED designations (4 POTS, 4 POTS+ADSL, BAT A & BAT B), LED test button, talk jacks, pin jack for connection to the Frame Ground and a 9-volt battery to power the LED's.

For complete information See Page 2 - Physical Description/Wiring.
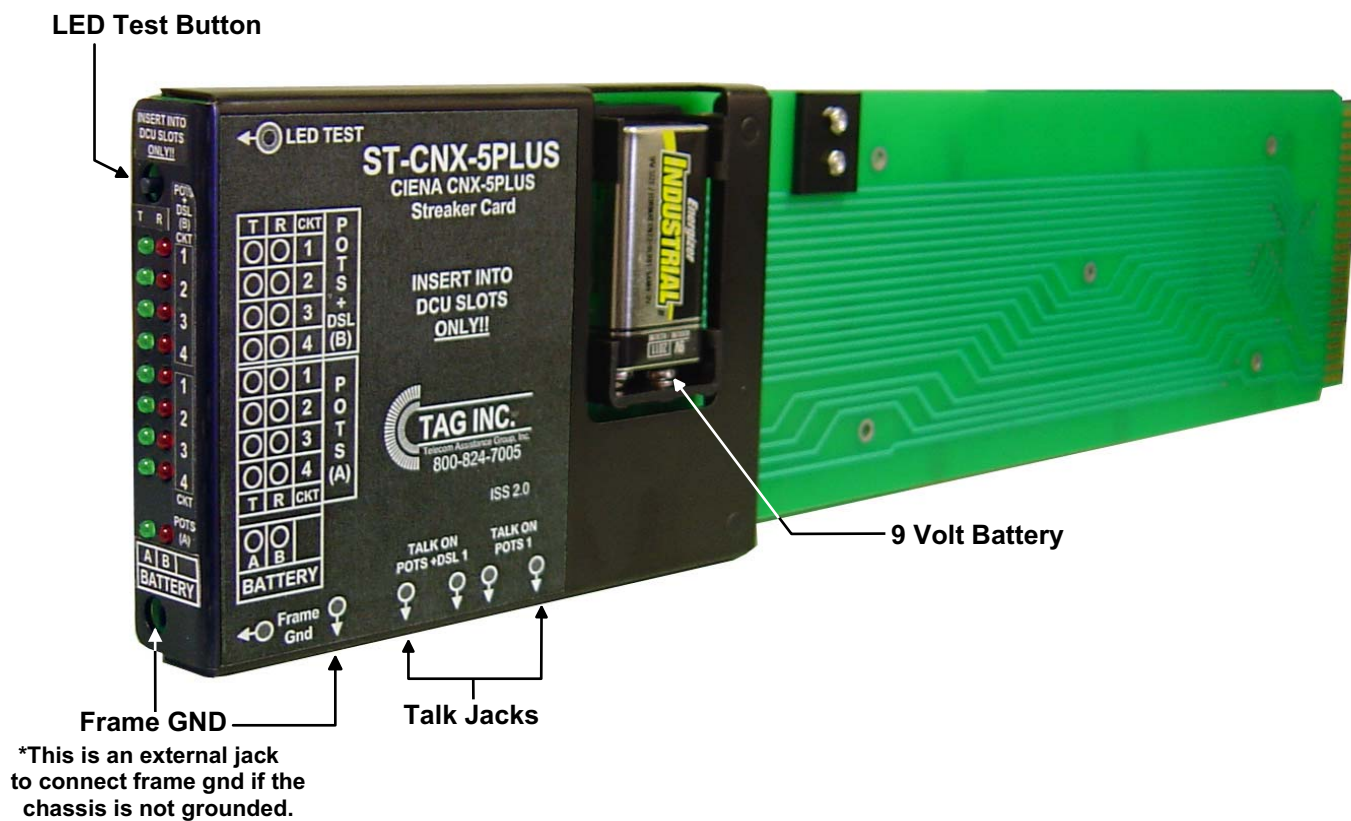
3 PROCEDURE

The test procedure typically requires two (2) people for ease of testing. Tester 1 will observe the LED's on the front of the ST-CNX-5PLUS Streaker Card. Tester 2 will connect a test probe to Frame Ground and begin by grounding the corresponding pins with the other end of the probe.

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

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4 ▶ Physical Description / Wiring

LED Test Button

9 Volt Battery

Talk Jacks

Frame GND

*This is an external jack
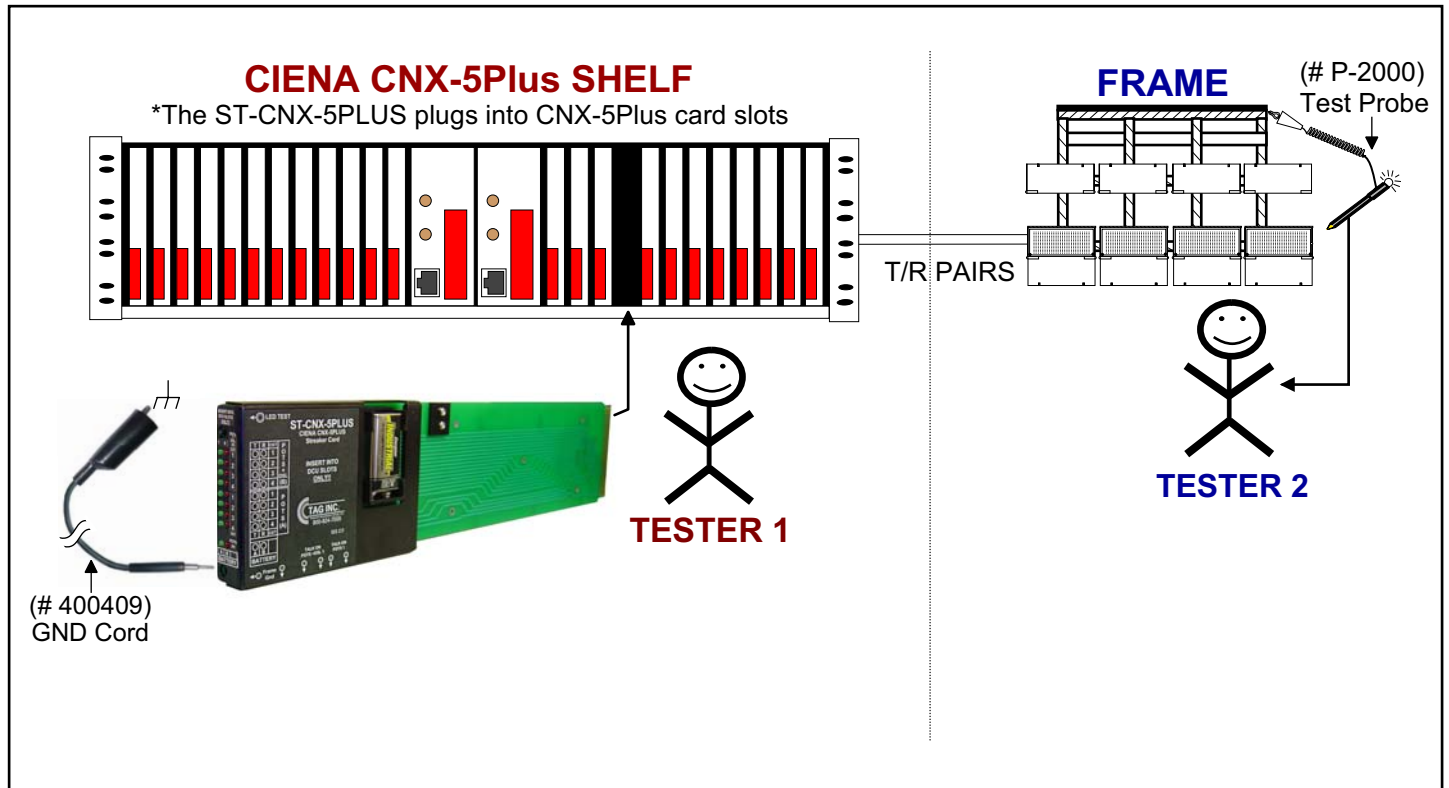to connect frame gnd if the
chassis is not grounded.*

The ST-CNX-5PLUS provides a quick method to "streak"- verify wiring via LED's from the Ciena CNX-5Plus backplane to the frame. At the frame simply ground the corresponding pins and the ST-CNX-5PLUS will light the LED associated with that connection.

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5 ▶ Step by Step Procedure

TESTER 1 (Ciena CNX-5Plus Equipment)

1. Press the LED test button on the ST-CNX-5PLUS 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.
    (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-CNX-5PLUS Streaker Card and connect the Alligator Clip to the Frame Ground.

4. Establish communication with Tester 2 at the Frame. You are ready to begin testing at the Ciena CNX-5Plus shelf (observe LED's illuminating).

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-CNX-5PLUS Streaker Card. The corresponding LED on the ST-CNX-5PLUS will indicate which wire is being probed.

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6 ▶ **Pinouts**

POTS Input "A" Cable Pinouts

Twisted Pair	Pin	Signal	Color
1	Pin 49	Channel 1 Tip	white/blue
1	Pin 50	Channel 1 Ring	blue/white
2	Pin 47	Channel 2 Tip	white/orange
2	Pin 48	Channel 2 Ring	orange/white
3	Pin 45	Channel 3 Tip	white/green
3	Pin 46	Channel 3 Ring	green/white
4	Pin 43	Channel 4 Tip	white/brown
4	Pin 44	Channel 4 Ring	brown/white
5	Pin 41	Channel 5 Tip	white/slate
5	Pin 42	Channel 5 Ring	slate/white
6	Pin 39	Channel 6 Tip	red/blue
6	Pin 40	Channel 6 Ring	blue/red
7	Pin 37	Channel 7 Tip	red/orange
7	Pin 38	Channel 7 Ring	orange/red
8	Pin 35	Channel 8 Tip	red/green
8	Pin 36	Channel 8 Ring	green/red
9	Pin 33	Channel 9 Tip	red/brown
9	Pin 34	Channel 9 Ring	brown/red
10	Pin 31	Channel 10 Tip	red/slate
10	Pin 32	Channel 10 Ring	slate/red
11	Pin 29	Channel 11 Tip	black/blue
11	Pin 30	Channel 11 Ring	blue/black
12	Pin 27	Channel 12 Tip	black/orange
12	Pin 28	Channel 12 Ring	orange/black
13	Pin 25	Channel 13 Tip	black/green
13	Pin 26	Channel 13 Ring	green/black
14	Pin 23	Channel 14 Tip	black/brown
14	Pin 24	Channel 14 Ring	brown/black
15	Pin 21	Channel 15 Tip	black/slate
15	Pin 22	Channel 15 Ring	slate/black
16	Pin 19	Channel 16 Tip	yellow/blue
16	Pin 20	Channel 16 Ring	blue/yellow
17	Pin 17	Channel 17 Tip	yellow/orange
17	Pin 18	Channel 17 Ring	orange/yellow
18	Pin 15	Channel 18 Tip	yellow/green
18	Pin 16	Channel 18 Ring	green/yellow
19	Pin 13	Channel 19 Tip	yellow/brown
19	Pin 14	Channel 19 Ring	brown/yellow
20	Pin 11	Channel 20 Tip	yellow/slate
20	Pin 12	Channel 20 Ring	slate/yellow
21	Pin 9	Channel 21 Tip	violet/blue
21	Pin 10	Channel 21 Ring	blue/violet
22	Pin 7	Channel 22 Tip	violet/orange
22	Pin 8	Channel 22 Ring	orange/violet
23	Pin 5	Channel 23 Tip	violet/green
23	Pin 6	Channel 23 Ring	green/violet
24	Pin 3	Channel 24 Tip	violet/brown
24	Pin 4	Channel 24 Ring	brown/violet
25	Pin 1	Channel 25 Tip	violet/slate
25	Pin 2	Channel 25 Ring	slate/violet

POTS + Data Output "B" Cable Pinouts

Twisted Pair	Pin	Signal	Color
1	Pin 50	Channel 1 Tip	white/blue
1	Pin 49	Channel 1 Ring	blue/white
2	Pin 48	Channel 2 Tip	white/orange
2	Pin 47	Channel 2 Ring	orange/white
3	Pin 46	Channel 3 Tip	white/green
3	Pin 45	Channel 3 Ring	green/white
4	Pin 44	Channel 4 Tip	white/brown
4	Pin 43	Channel 4 Ring	brown/white
5	Pin 42	Channel 5 Tip	white/slate
5	Pin 41	Channel 5 Ring	slate/white
6	Pin 40	Channel 6 Tip	red/blue
6	Pin 39	Channel 6 Ring	blue/red
7	Pin 38	Channel 7 Tip	red/orange
7	Pin 37	Channel 7 Ring	orange/red
8	Pin 36	Channel 8 Tip	red/green
8	Pin 35	Channel 8 Ring	green/red
9	Pin 34	Channel 9 Tip	red/brown
9	Pin 33	Channel 9 Ring	brown/red
10	Pin 32	Channel 10 Tip	red/slate
10	Pin 31	Channel 10 Ring	slate/red
11	Pin 30	Channel 11 Tip	black/blue
11	Pin 29	Channel 11 Ring	blue/black
12	Pin 28	Channel 12 Tip	black/orange
12	Pin 27	Channel 12 Ring	orange/black
13	Pin 26	Channel 13 Tip	black/green
13	Pin 25	Channel 13 Ring	green/black
14	Pin 24	Channel 14 Tip	black/brown
14	Pin 23	Channel 14 Ring	brown/black
15	Pin 22	Channel 15 Tip	black/slate
15	Pin 21	Channel 15 Ring	slate/black
16	Pin 20	Channel 16 Tip	yellow/blue
16	Pin 19	Channel 16 Ring	blue/yellow
17	Pin 18	Channel 17 Tip	yellow/orange
17	Pin 17	Channel 17 Ring	orange/yellow
18	Pin 16	Channel 18 Tip	yellow/green
18	Pin 15	Channel 18 Ring	green/yellow
19	Pin 14	Channel 19 Tip	yellow/brown
19	Pin 13	Channel 19 Ring	brown/yellow
20	Pin 12	Channel 20 Tip	yellow/slate
20	Pin 11	Channel 20 Ring	slate/yellow
21	Pin 10	Channel 21 Tip	violet/blue
21	Pin 9	Channel 21 Ring	blue/violet
22	Pin 8	Channel 22 Tip	violet/orange
22	Pin 7	Channel 22 Ring	orange/violet
23	Pin 6	Channel 23 Tip	violet/green
23	Pin 5	Channel 23 Ring	green/violet
24	Pin 4	Channel 24 Tip	violet/brown
24	Pin 3	Channel 24 Ring	brown/violet
25	Pin 2	Channel 25 Tip	violet/slate
25	Pin 1	Channel 25 Ring	slate/violet