T1 E1 J1 Switch

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T1 E1/J1 Switch

- The T1 E1 J1 Switch provides non-intrusive failsafe monitoring and intrusive test diagnostic capability for up to 8 full duplex T1, E1, and J1 lines

Key Features

- Replaces Physical Cabling Changes
- 19” rack-mount Enclosure
- Handles 8 Full Duplex Lines
- Modes for Monitoring or Intrusive Testing
- USB Controlled
- Local or Remote Software Controls
- Fail-Safe Mode for Power Failures

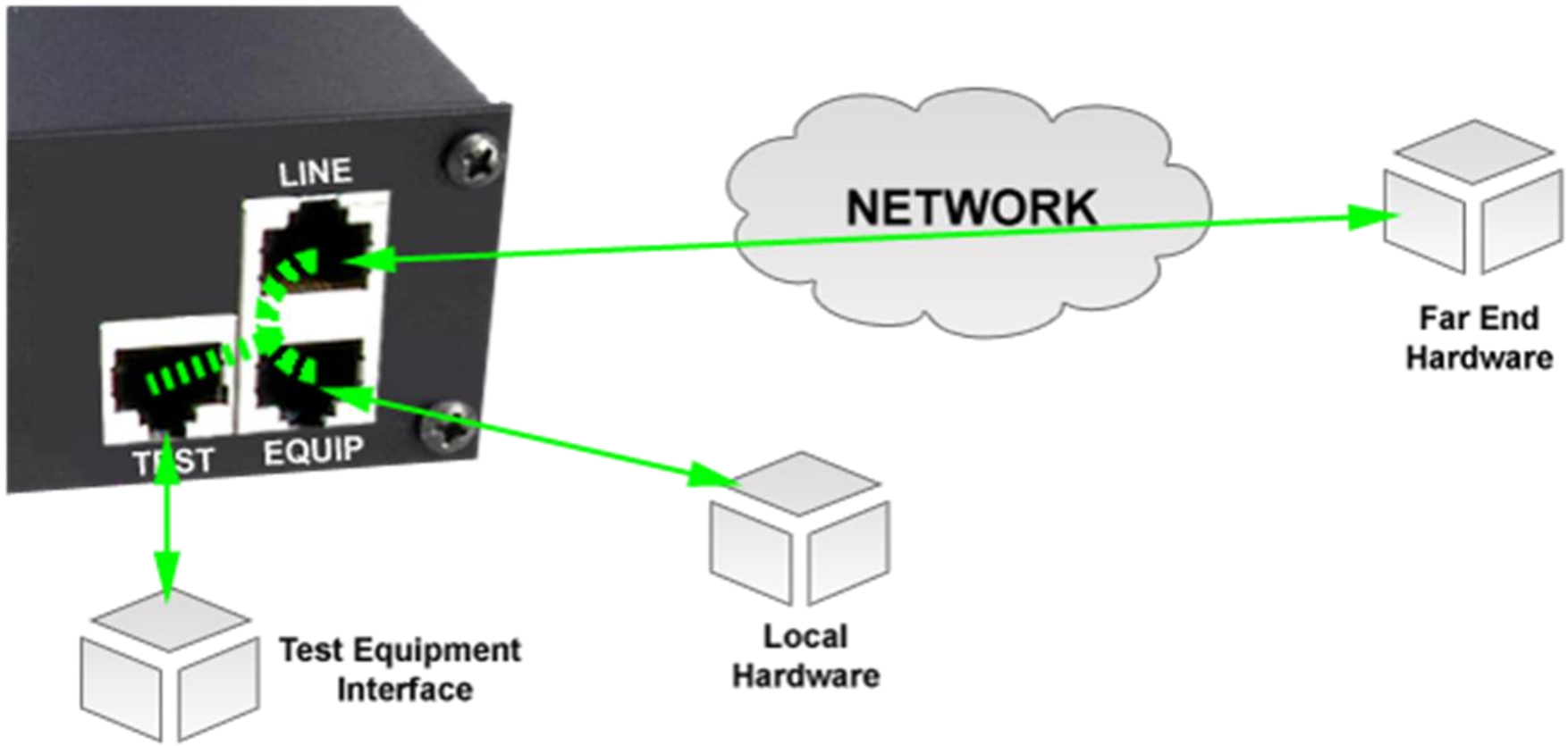
T1 E1 or J1 Switch Applications

- Automated testing environments
- Remote intrusive and non-intrusive test applications
- Monitoring and surveillance applications
- Protocol content monitoring
- Remote control switching of lines

Cable Setup

The unit provides:

- Two RJ-48c connectors for a thru-mode connection for equipment and line connections
- One RJ-48c monitor connector for monitoring both directions of a full duplex high-speed line



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Specifications

Physical Dimensions Size Weight	1U rack mount case — (L) 6"" x (W) 17.67"" x (H) 1.72"" 5 Lbs or 2.2Kg
Physical Interfaces	Front Panel • 8 green LEDs which are used to indicate monitor • 8 yellow LEDs which are used to indicate intrusive testing mode • One additional LED to indicate power Rear Panel • Line • 8 RJ48c connectors, one for each port which is used to connect to the network Equipment • 8 RJ48c connectors, one for each port, which is used to connect to the CSU, or other equipment installed Test • 8 RJ48c connectors, one for each port which is used to connect to a test device to monitor or test T1E1/J1 lines

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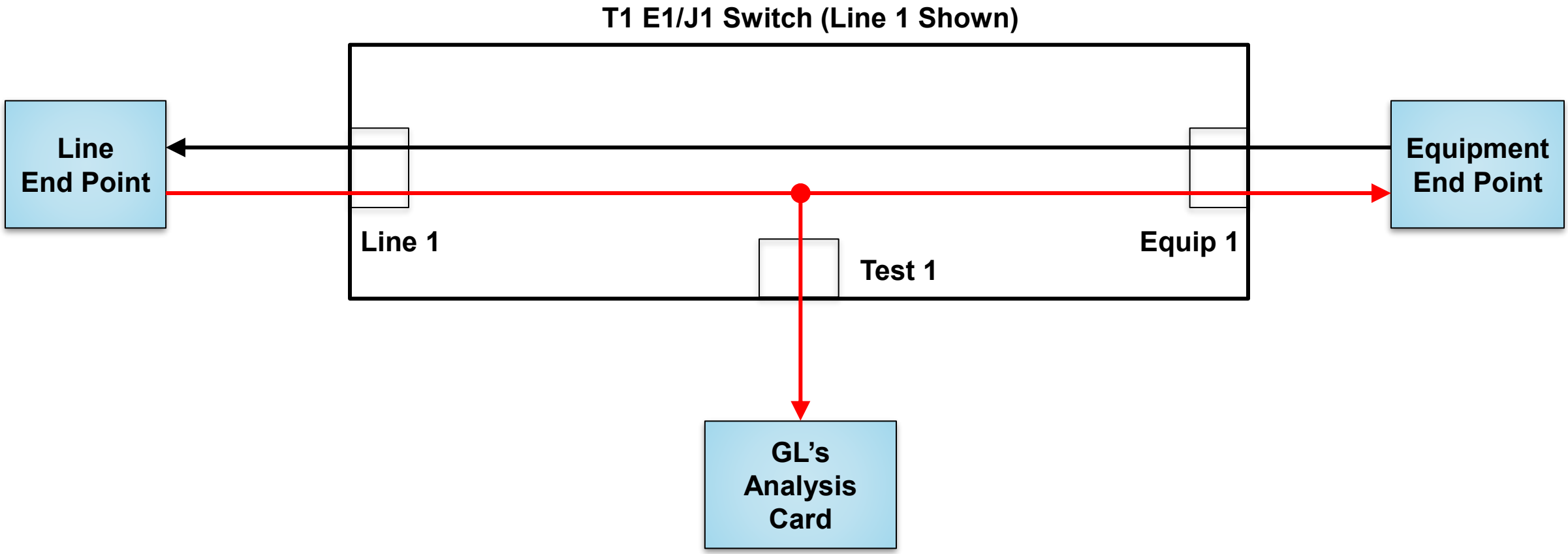
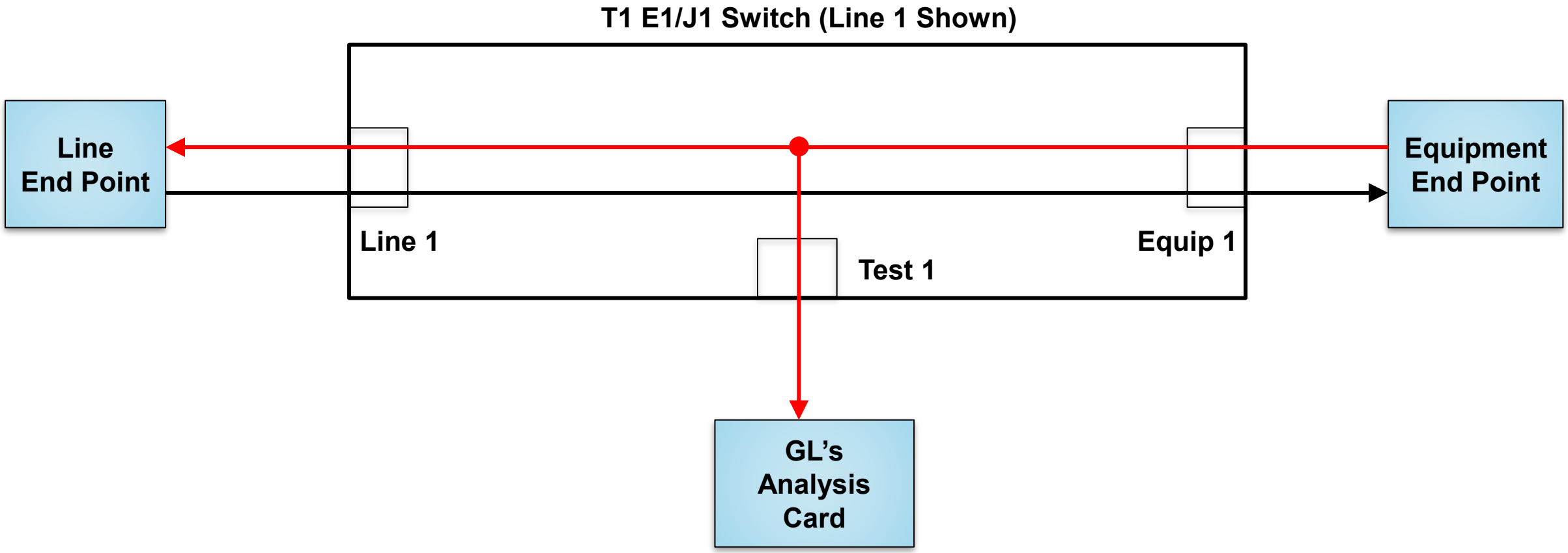
Specifications (Contd.)

Physical Interfaces	**AC Power** • Has an AC receptacle to accommodate a three prong AC Plug. **USB Connector** • A TYPE B USB Connector used to interface to a USB 2.0 PC device.
Software Requirements	• T1 E1/J1 Switch Software GUI • GL"s Windows Client/Server (WCS) Application
Power	• AC Power • The AC power will accept 110-240VAC at 50/60 Hz with a 5x20mm slow blow .5A fuse. • USB Power – The USB requires a 2.0 USB device connection, which will draw less than 500mA

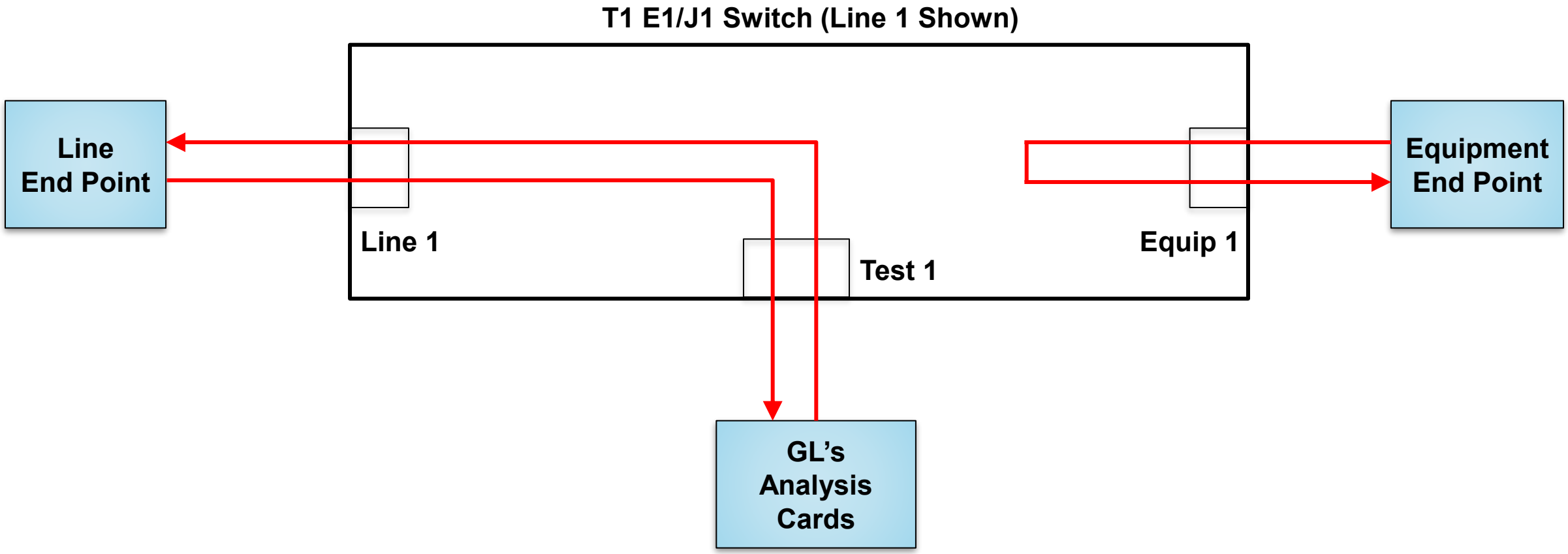
Basic Modes Line Monitoring



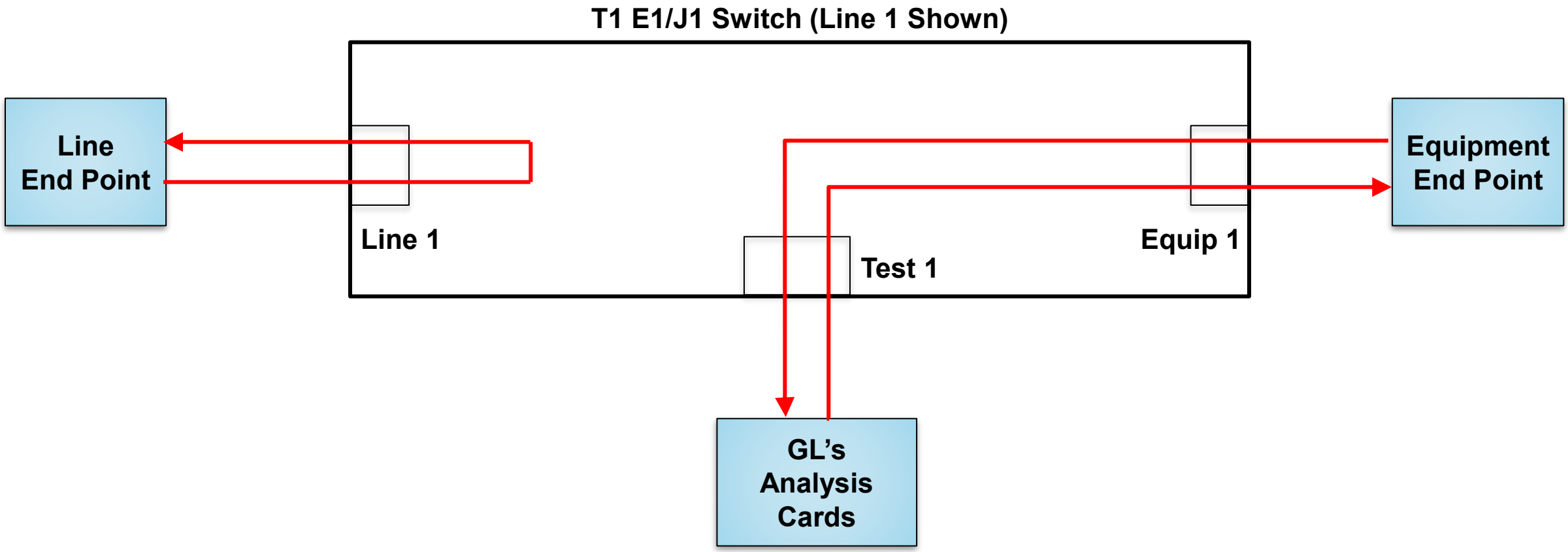
Basic Modes Equipment Monitoring



Basic Modes Line Testing (Intrusive)

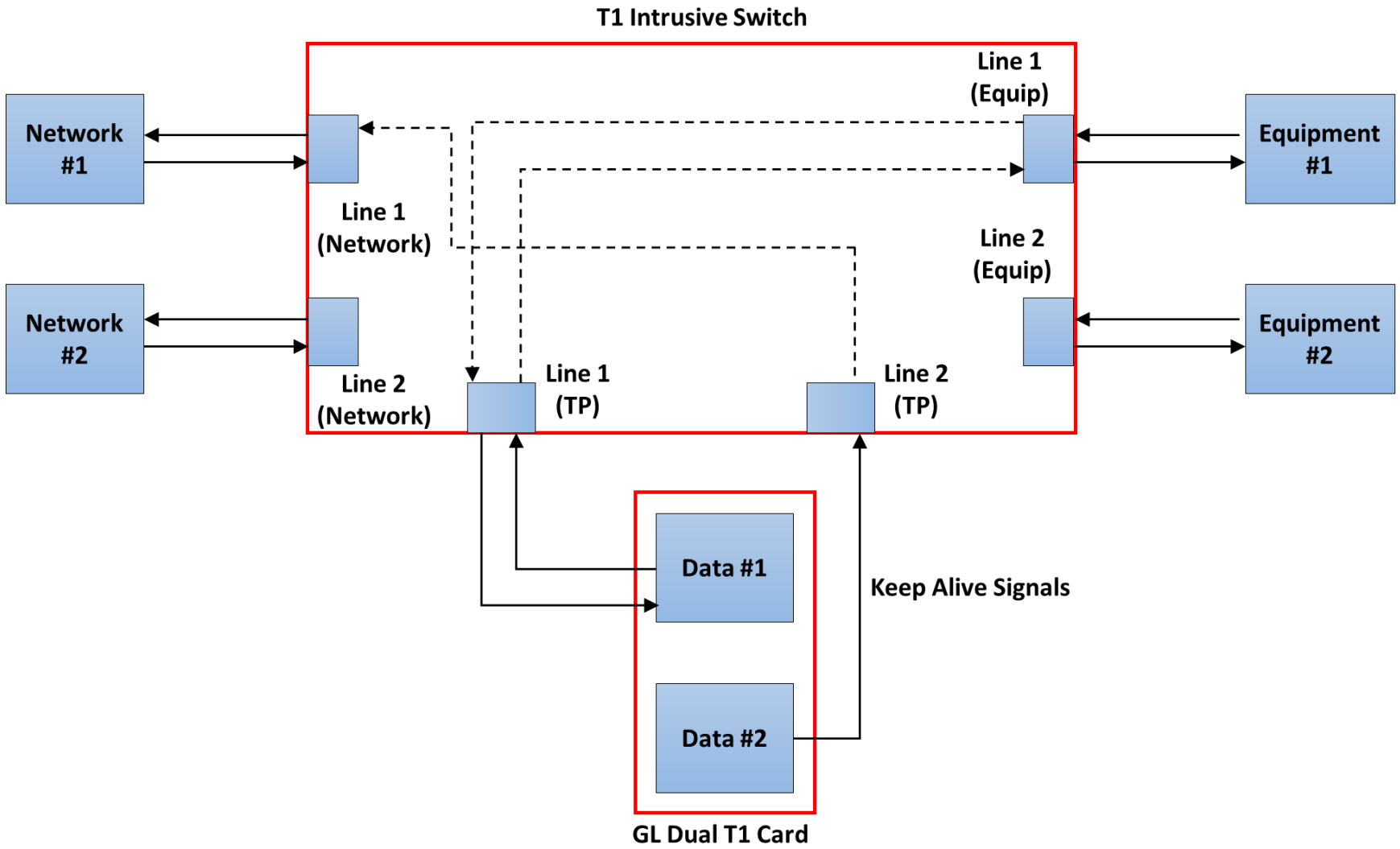


Basic Modes Equipment Testing (Intrusive)



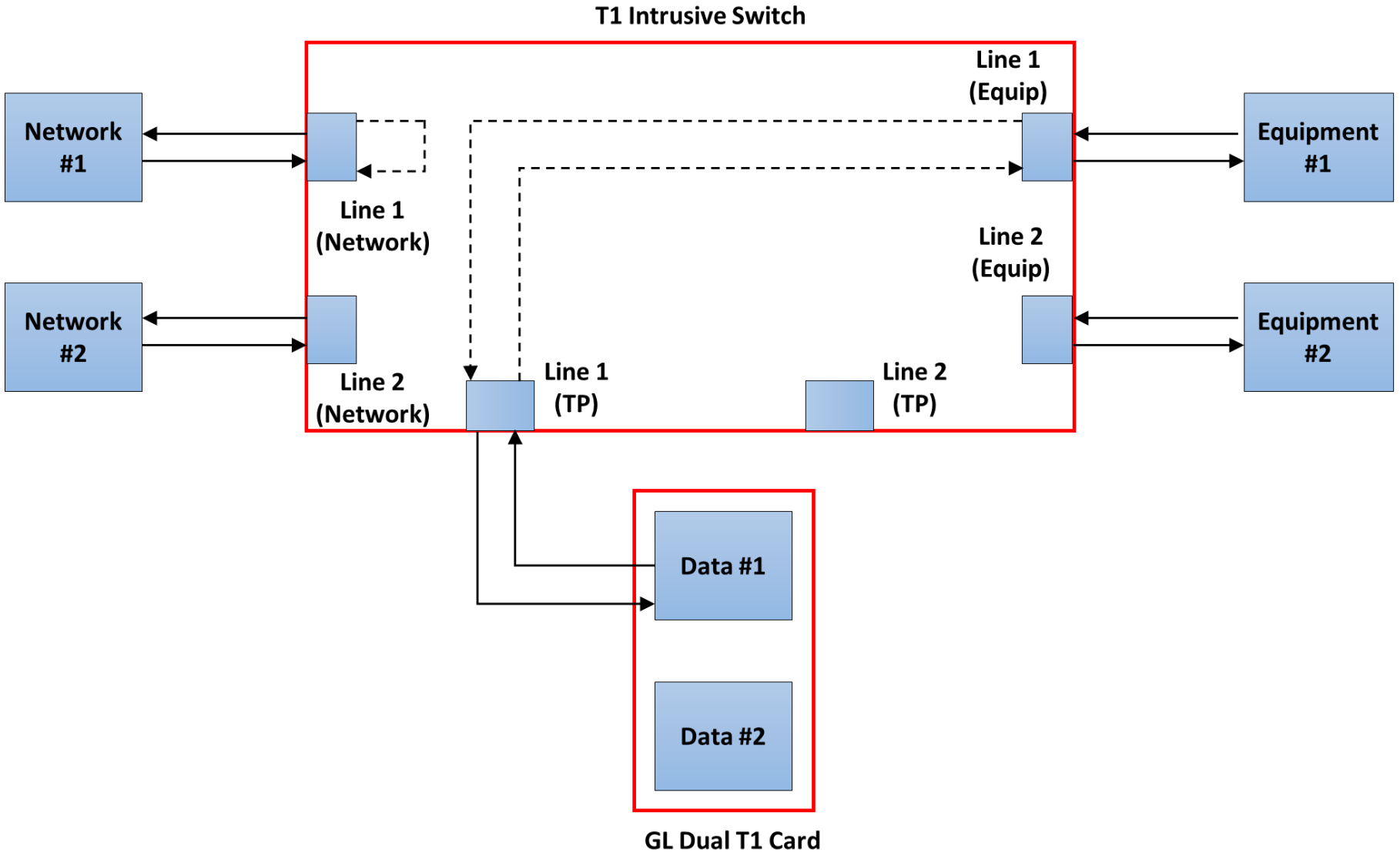
Line Testing with Keep Alive (Shared)

- Allows to test intrusively in the direction of Line. The secondary test cards provides Keep Alive signals indicating the line is active



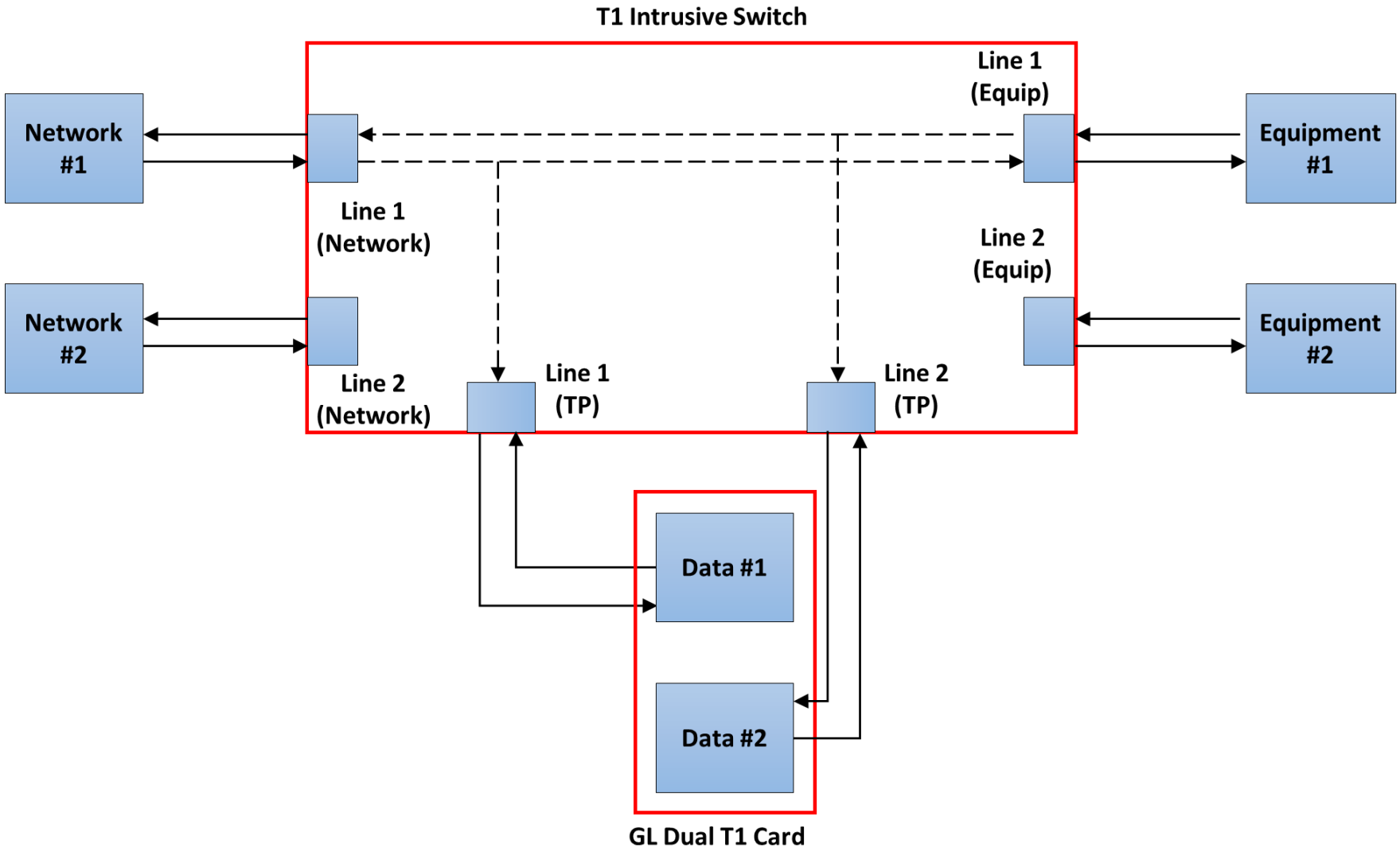
Line Testing with Equipment Loopback

- Allows to test intrusively in the direction of Line. The Equipment side is looped back within the switch



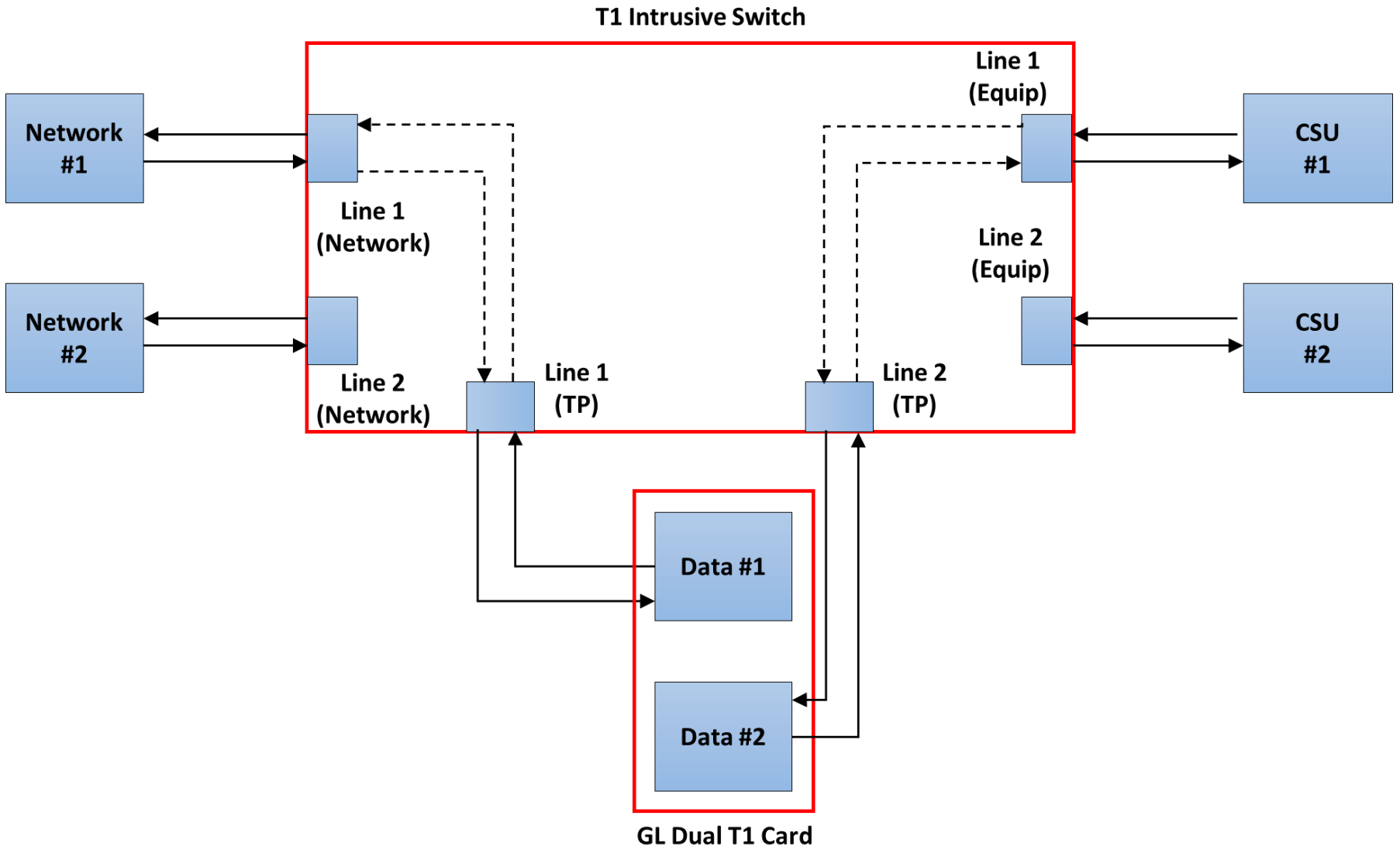
Dual Direction Monitoring

- Allows to monitor the incoming signals from the Line and the Equipment non-intrusively



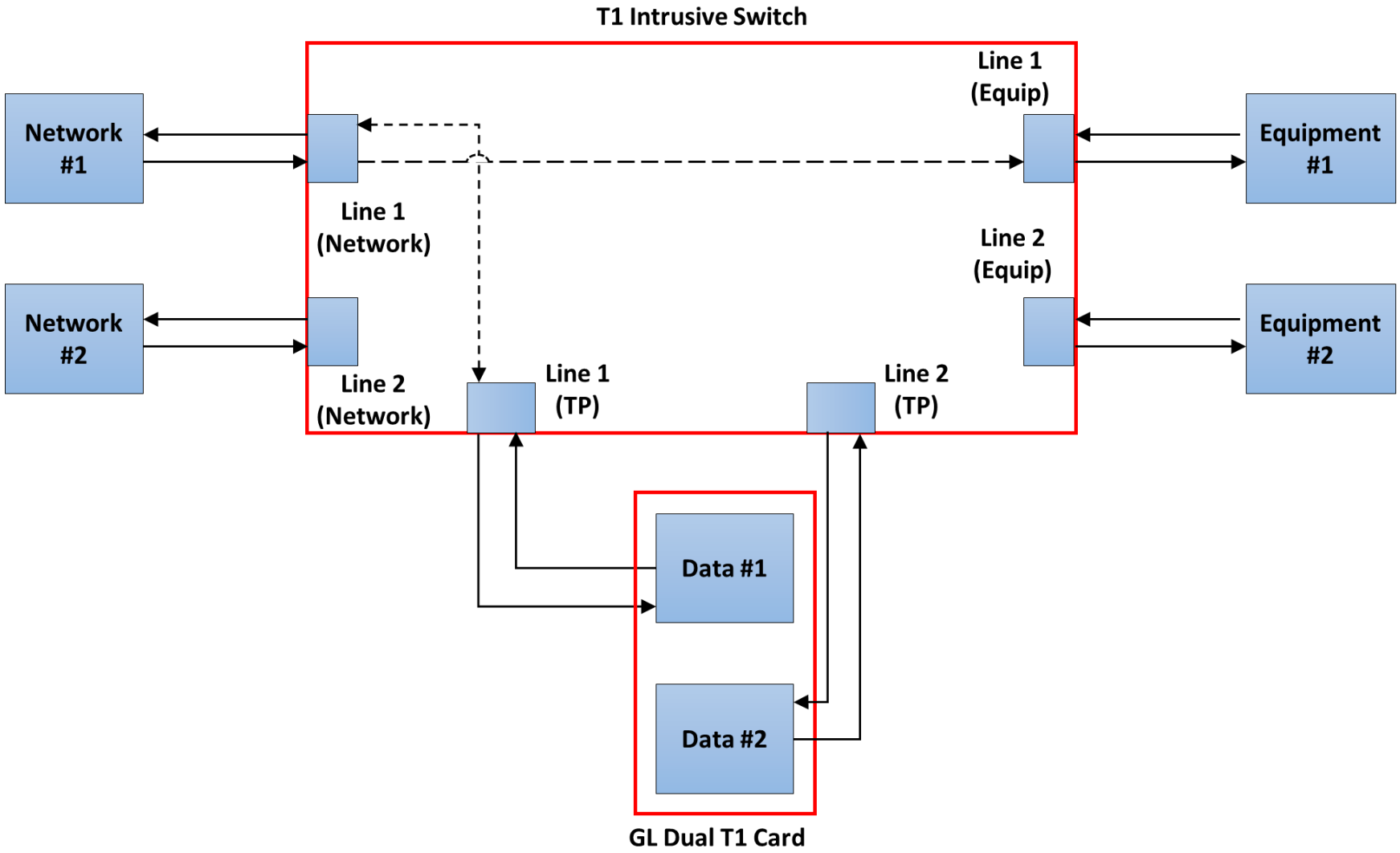
Dual Direction Testing

- Allows to test the incoming signals intrusively from the Line and the Equipment at the same time



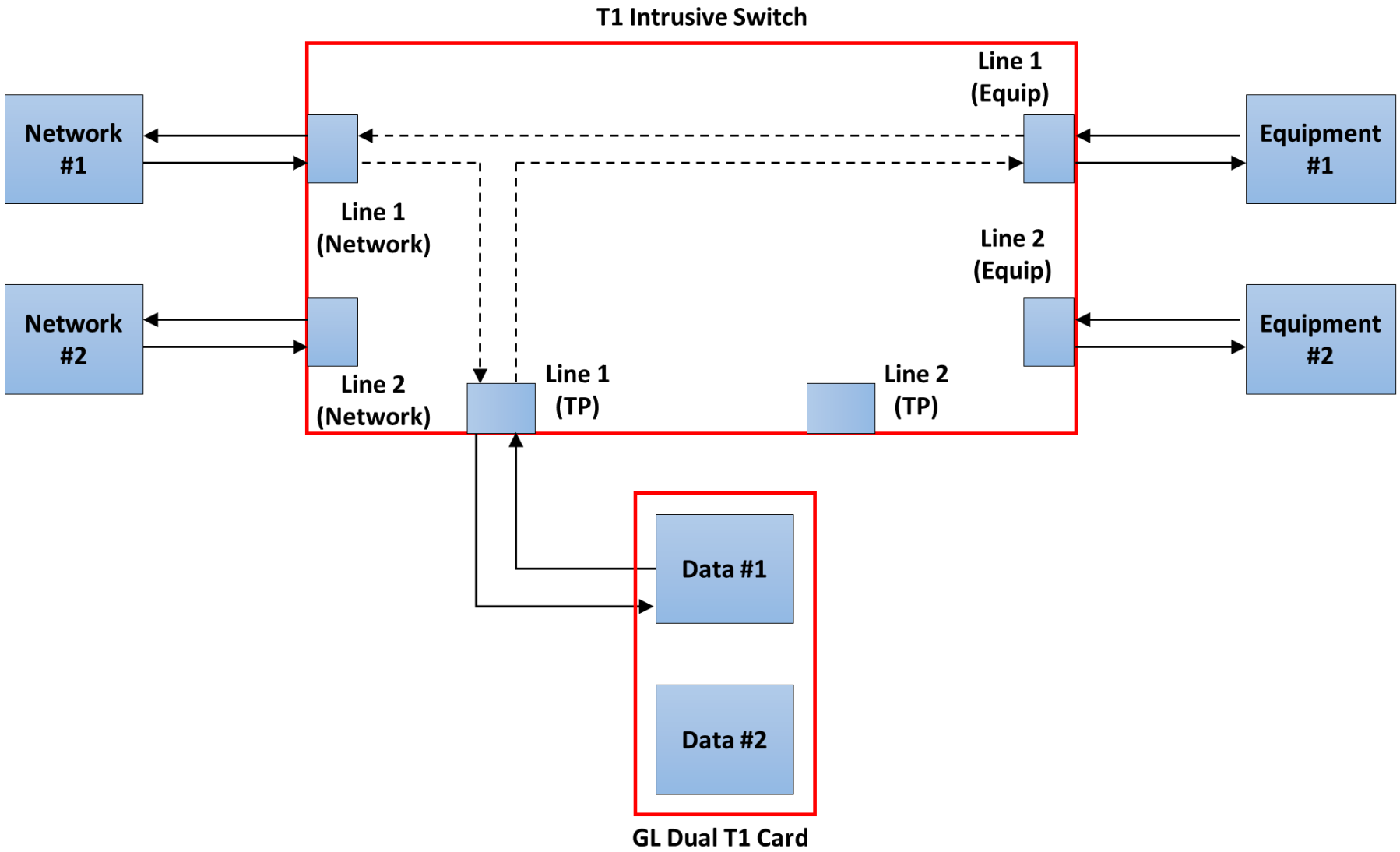
Monitor Line Loopback with Signal Thru

- Allows to loopback the Line signal within the Switch and allow the test port to monitor. The signal from the Line is passed through to the Equipment



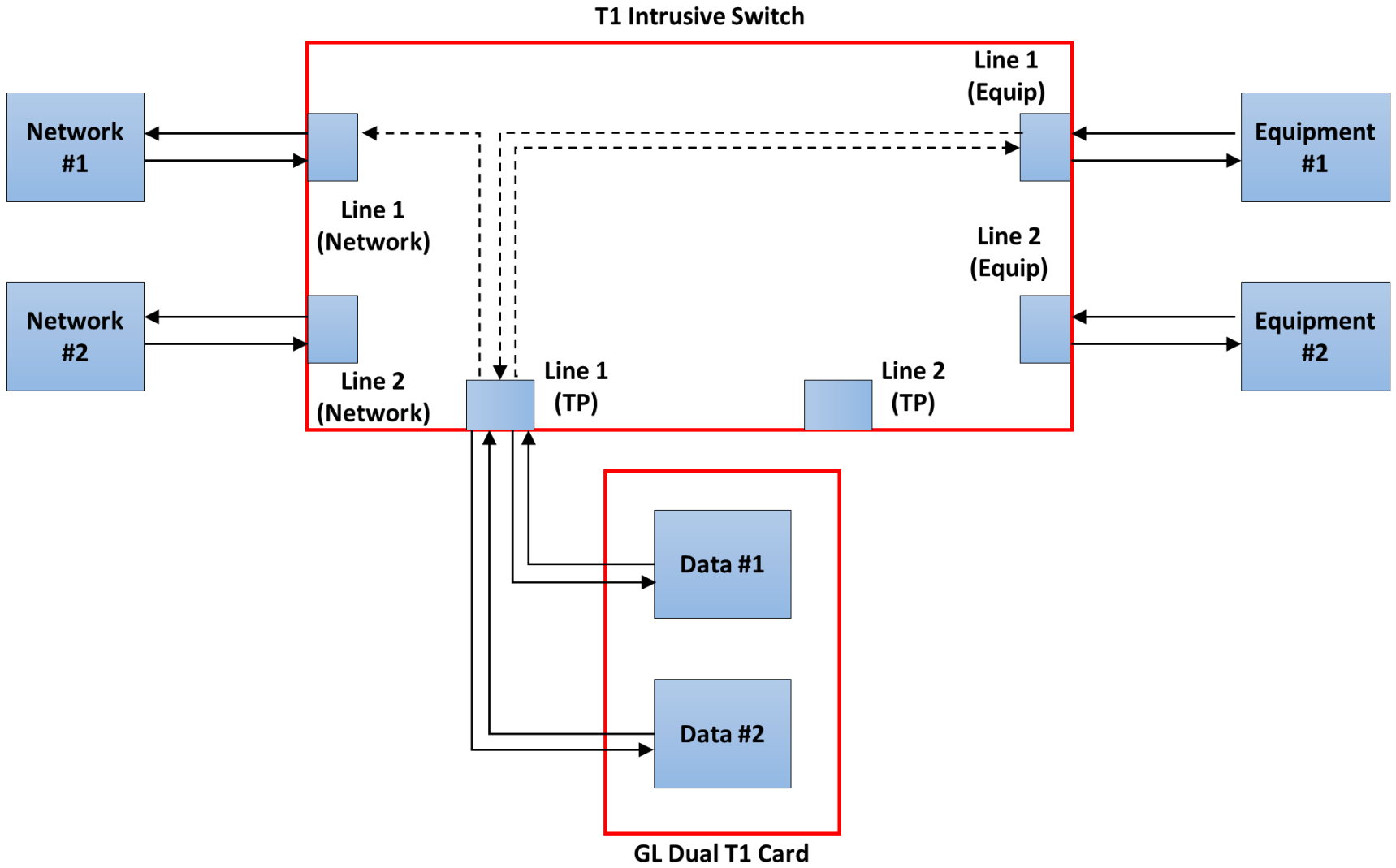
Drop and Insert to Equipment

- It is an intrusive test allows to drop the received signal from the Line and insert the generated signal from the test card to the Equipment

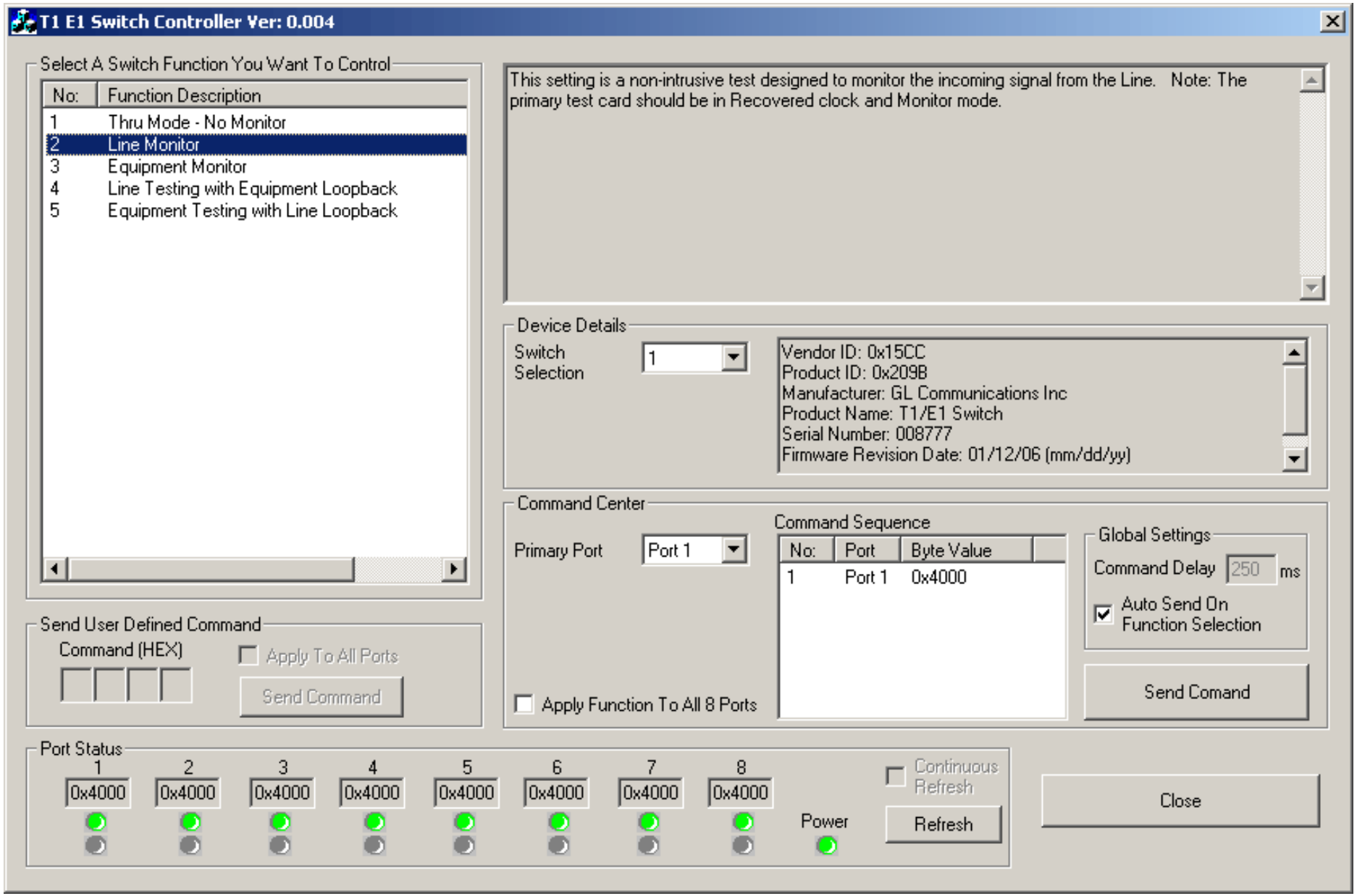


Dual Cable Connection

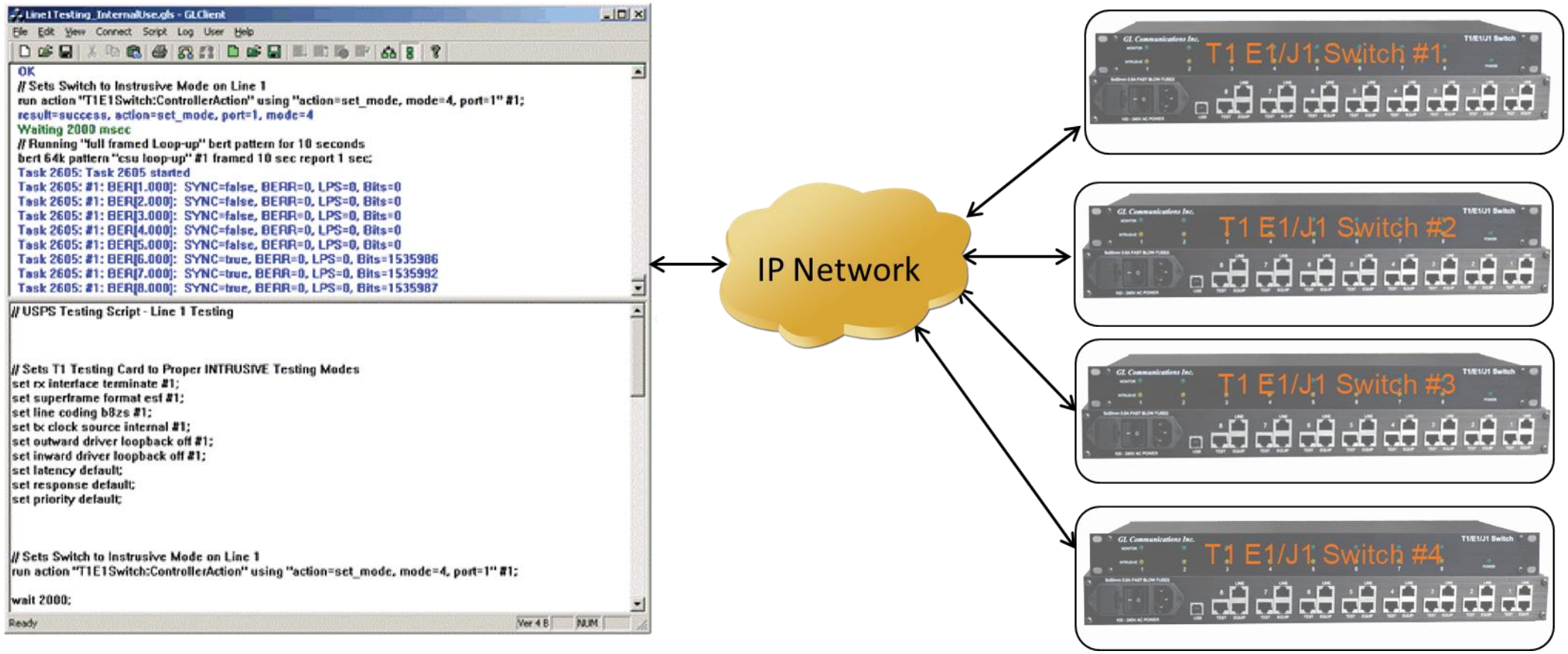
- It is an intrusive test allows to test the Equipment/Line. The test card 2 provides Keep Alive signal towards the Line/Equipment, respectively



Software Controls (Local) MS Windows GUI



Software Controls (Remote Location)
Using GL's Windows Client/Server



Thank you