
Synchronous Trunk Record-Playback



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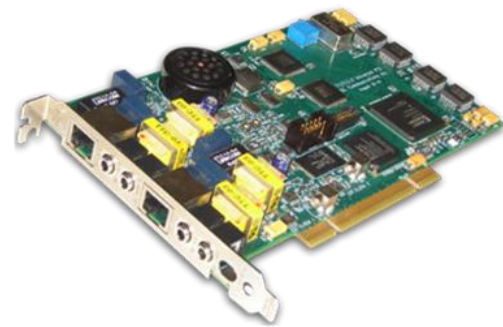
T1 E1 Hardware Platforms



Dual T1 E1 Express (PCIe) T1/E1 Analyzer



Quad / Octal T1 E1 PCIe Card



Dual HD Universal T1 E1 PCI Card



tProbe - Portable USB based
T1 E1 VF FXO FXS & Serial Data

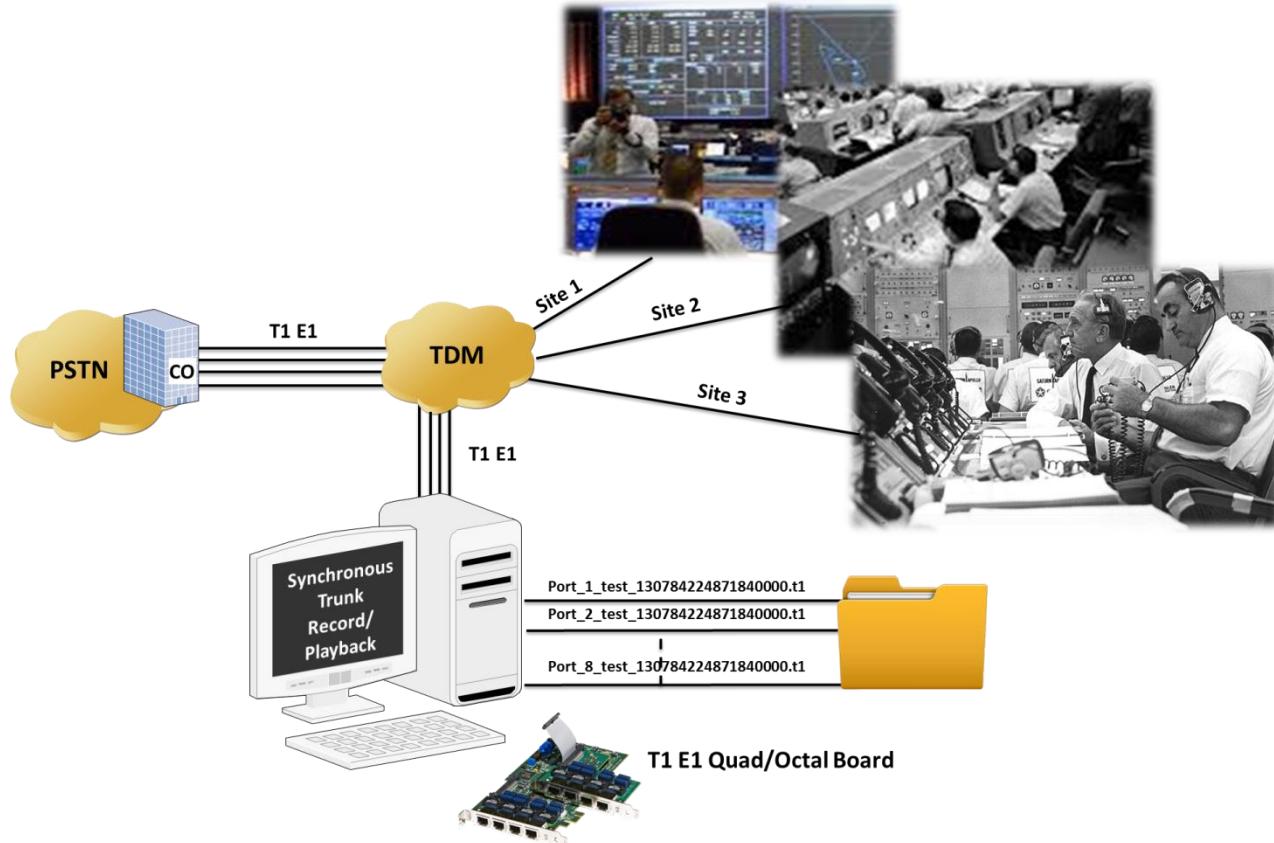


Portable USB based
Dual T1 E1 Analysis Unit



tScan16™ - T1 E1 Analysis
(16 Port Rx Only)

Live T1 E1 Traffic Recording



STRP Main GUI

Playback Option

The screenshot shows the 'T1/E1 Record Playback' window in Playback mode. The interface includes a menu bar with 'File', 'Playback', and 'Record'. Below the menu is a 'Load Mission' button and a 'Clear Mission' button. A 'Select All Ports' checkbox is checked. A table lists ports 1 and 2. Playback controls include play, stop, and fast forward buttons. The status is 'None' and the FFW/RW Duration is 0:0:10. Start and End Time fields are present, along with a 'Current Play Time' field and a 'Jump To Time' button. A 'User Defined Events' section has a text input for 'Name', a time selection field, and a 'Slider Time' checkbox. An 'Events' table is at the bottom with 'Add', 'Delete', 'Clear', and 'Jump To Event' buttons.

Ports	File	Playback ...	Un
<input type="checkbox"/>	1		
<input type="checkbox"/>	2		

Status: None FFW/RW Duration: 0:0:10

Start Time: End Time:

Month Day Year Hour Min Sec Current Play Time

Month Day Year Hour Min Sec Jump To Time

User Defined Events

Name: Month Day Year Hour Min Sec



Event Time Slider Time

Events	Time
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Add Delete Clear Jump To Event

Record Option

The screenshot shows the 'T1/E1 Record Playback' window in Record mode. The interface includes a menu bar with 'File', 'Playback', and 'Record'. Below the menu is a 'Mission Name' text field and a red record button. A 'Limited Recording' section has a checkbox and time selection fields (Hour: 0, Minute: 0, Second: 0). It shows 'Required Disk Space / Port : 0 MB' and 'Required Total Disk Space : 0 MB'. A 'Schedule Recording' section has a checkbox and a date/time selection field (Month: 5, Day: 5, Year: 2020, Hour: 16, Min: 18, Sec: 10). A 'Select All Trunks' checkbox is checked. A table lists 16 trunks with their port numbers, recorded bytes, and overrun error counts.

Mission Name:  

Limited Recording

Hour: 0 Minute: 0 Second: 0

Required Disk Space / Port : 0 MB

Required Total Disk Space : 0 MB

Schedule Recording

Month: 5 Day: 5 Year: 2020 Hour: 16 Min: 18 Sec: 10

Select All Trunks

Trunks	Port #	Recorded Bytes	Recording File Path	Overrun Errors Count
<input checked="" type="checkbox"/>	Trunk1	1	0	0
<input checked="" type="checkbox"/>	Trunk2	2	0	0
<input checked="" type="checkbox"/>	Trunk3	3	0	0
<input checked="" type="checkbox"/>	Trunk4	4	0	0
<input checked="" type="checkbox"/>	Trunk5	5	0	0
<input checked="" type="checkbox"/>	Trunk6	6	0	0
<input checked="" type="checkbox"/>	Trunk7	7	0	0
<input checked="" type="checkbox"/>	Trunk8	8	0	0
<input checked="" type="checkbox"/>	Trunk9	9	0	0
<input checked="" type="checkbox"/>	Trunk10	10	0	0
<input checked="" type="checkbox"/>	Trunk11	11	0	0
<input checked="" type="checkbox"/>	Trunk12	12	0	0
<input checked="" type="checkbox"/>	Trunk13	13	0	0
<input checked="" type="checkbox"/>	Trunk14	14	0	0
<input checked="" type="checkbox"/>	Trunk15	15	0	0
<input checked="" type="checkbox"/>	Trunk16	16	0	0

Main Features

- Synchronously Record & Playback live T1 E1 traffic on multiple T1 E1 trunks
- Record traffic on all 24 T1 channels (or all 32 E1 channels) for a specified duration or continuously
- For large capacity, GL's Octal T1 E1 boards offers to record and playback on up to 192 T1 channels and 256 E1 channels per board. More scalability can be achieved with multiple boards
- Schedule recording to auto start recording of T1 E1 traffic on a specified Date and Time (Day, Month, Year, Hour, Minute, and Second)
- Recording performed using A-Law, and μ -Law codec
- Mark the events as you playback recorded files. Jump to the event directly to start playing back from the marked event point
- Most valuable application for critical data analysis in defence and research activities

Recording Feature

- Records all the incoming T1 E1 traffic on the selected T1 E1 ports (lines).
- Records Live T1 E1 traffic for a specified duration of time. The Countdown Time display remaining time duration
- Automatically start recording Live T1 E1 traffic as per the schedule. Traffic can be recorded continuously or for a specified duration.

Mission Name: Test

Limited Recording

Hour: 0 Minute: 2 Second: 30

Required Disk Space / Port : 28.80 MB
Required Total Disk Space : 230.40 MB

Schedule Recording

Month: 5 Day: 5 Year: 2020 Hour: 15 Min: 54 Sec: 35

Select All Trunks

Trunks	Port #	Recorded Bytes	Recording File Path	Overrun Errors Count
<input checked="" type="checkbox"/> Trunk1	1	4822848	C:\Program Files\GL Communications Inc\Octal Xpress T1 Analyzer\T1Rec...	0
<input checked="" type="checkbox"/> Trunk2	2	4822848	C:\Program Files\GL Communications Inc\Octal Xpress T1 Analyzer\T1Rec...	0
<input checked="" type="checkbox"/> Trunk3	3	4822848	C:\Program Files\GL Communications Inc\Octal Xpress T1 Analyzer\T1Rec...	0
<input checked="" type="checkbox"/> Trunk4	4	4822272	C:\Program Files\GL Communications Inc\Octal Xpress T1 Analyzer\T1Rec...	0
<input checked="" type="checkbox"/> Trunk5	5	4822848	C:\Program Files\GL Communications Inc\Octal Xpress T1 Analyzer\T1Rec...	0
<input checked="" type="checkbox"/> Trunk6	6	4822272	C:\Program Files\GL Communications Inc\Octal Xpress T1 Analyzer\T1Rec...	0
<input checked="" type="checkbox"/> Trunk7	7	4822848	C:\Program Files\GL Communications Inc\Octal Xpress T1 Analyzer\T1Rec...	0
<input checked="" type="checkbox"/> Trunk8	8	4822848	C:\Program Files\GL Communications Inc\Octal Xpress T1 Analyzer\T1Rec...	0
<input type="checkbox"/> Trunk9	9	0		0
<input type="checkbox"/> Trunk10	10	0		0
<input type="checkbox"/> Trunk11	11	0		0
<input type="checkbox"/> Trunk12	12	0		0
<input type="checkbox"/> Trunk13	13	0		0
<input type="checkbox"/> Trunk14	14	0		0

File Naming Convention

Port Number

Port_1_Test_130832444772730000.t1
Port_2_Test_130832444772730000.t1
Port_3_Test_130832444772730000.t1
Port_4_Test_130832444772730000.t1
Port_5_Test_130832444772730000.t1
Port_6_Test_130832444772730000.t1
Port_7_Test_130832444772730000.t1
Port_8_Test_130832444772730000.t1

Mission Name

The recorded file name contains start date and time details in file time format. It is internally interpreted by the application in local system time format

The screenshot shows a playback control interface. At the top, there are several control buttons: play, repeat, stop, a circular refresh button, and fast forward/rewind. Below these is a status bar with 'Status:None' and 'FFW/RW Duration' set to 0 hours, 0 minutes, and 10 seconds. A progress bar is visible below the status bar. The 'Start Time' is displayed as '08/05/2015 10:34:37' and is highlighted with a red box. The 'End Time' is '08/05/2015 10:37:07'. Below the times are two sets of time input fields for 'Current Play Time' and 'Jump To Time', each with fields for Month, Day, Year, Hour, Min, and Sec.

Load Mission for Playback

- Provides options to load the recorded files per Mission
- Display Mission Name, Total duration, Start and End time of the recorded file.

The screenshot displays the T1 Octal Express Analyzer interface. The main window shows a table of ports and their configurations:

Port	Framing	Loopback	Termination	Clock	BBS	Cross-port
1	ESF (193E)	No Loopback	Terminate	Internal	On	Normal
2	ESF (193E)	No Loopback	Terminate	Internal	On	Normal
3	ESF (193E)	No Loopback	Terminate	Internal	On	Normal
4	ESF (193E)	No Loopback	Terminate	Internal	On	Normal
5	ESF (193E)	No Loopback	Terminate	Internal	On	Normal
6	ESF (193E)	No Loopback	Terminate	Internal	On	Normal
7	ESF (193E)	No Loopback	Terminate	Internal	On	Normal
8	ESF (193E)	No Loopback	Terminate	Internal	On	Normal

The 'T1/E1 Record Playback' dialog box is open, showing the 'Playback' tab. The 'Load Mission' button is highlighted. The 'Mission Name' is 'T1Traffic' and the 'Duration' is '0:2:30'. The 'Clear Mission' button is also visible. The 'Select All Ports' checkbox is checked. The 'Browse for Folder' dialog box is open, showing the 'T1RecordPlaybackFiles' folder selected, with the 'T1Traffic' subfolder highlighted. The 'OK' button is visible.

Playback Feature

- Start the playback on the selected ports.
- The playback status is shown in terms of percentage.
- Total number of bytes transmitted for each port is displayed.

File

Playback | Record

Load Mission | Mission Name - test | Duration - 0:0:16 | Clear Mission

Select All Ports

Ports	File	Playedback ...	Under-run Cnt
<input checked="" type="checkbox"/> 1	Port_1_Test_130832418940250000.t1	249960	0
<input checked="" type="checkbox"/> 2	Port_2_Test_130832418940250000.t1	249960	0
<input checked="" type="checkbox"/> 3	Port_3_Test_130832418940250000.t1	249960	0
<input checked="" type="checkbox"/> 4	Port_4_Test_130832418940250000.t1	249960	0
<input checked="" type="checkbox"/> 5	Port_5_Test_130832418940250000.t1	249960	0
<input checked="" type="checkbox"/> 6	Port_6_Test_130832418940250000.t1	249960	0
<input checked="" type="checkbox"/> 7	Port_7_Test_130832418940250000.t1	249960	0
<input checked="" type="checkbox"/> 8	Port_8_Test_130832418940250000.t1	249960	0

Play | Stop | Fast Forward | Play/Pause | Previous | Next

Status: Playing 7% | FFW/RW Duration: 0 | 0 | 10

Start Time 08/05/2015 09:51:34 | End Time 08/05/2015 09:51:50

Month: 8 | Day: 5 | Year: 2015 | Hour: 9 | Min: 51 | Sec: 35 | Current Play Time

Month: 8 | Day: 5 | Year: 2015 | Hour: 9 | Min: 51 | Sec: 34 | Jump To Time

User Defined Events

Name: _____

Event Time | Month: 8 | Day: 5 | Year: 2015 | Hour: 9 | Min: 51 | Sec: 34

Slider Time

Events	Time
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Add | Delete | Clear | Jump To Event

Jump to Time

Current Play Time position as per Jump To Time

The screenshot shows a media player interface. At the top, there is a horizontal timeline with a playhead marker. Below the timeline, the start and end times are displayed: "Start Time 06/09/2015 18:16:35" and "End Time 06/09/2015 18:17:14". Below these times are two identical time selection grids. Each grid has columns for Month, Day, Year, Hour, Min, and Sec. The first grid is labeled "Current Play Time" and the second is labeled "Jump To Time". Both grids have the values 6, 9, 2015, 18, 16, and 47 respectively. A red box highlights the "Current Play Time" grid. An arrow points from the playhead marker on the timeline to the "Current Play Time" grid. Another arrow points from the "Jump To Time" grid to the text "Jump To Time" below it.

Month	Day	Year	Hour	Min	Sec	
6	9	2015	18	16	47	Current Play Time
Month	Day	Year	Hour	Min	Sec	
6	9	2015	18	16	47	Jump To Time

Jump To Time

User-Defined Events

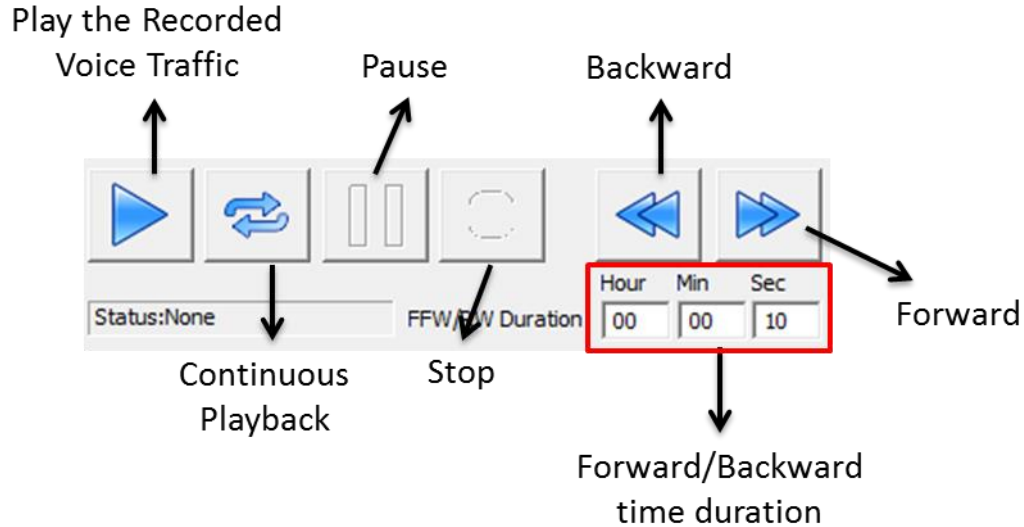
- Provides option to mark a particular time event and jump to the added event in the Current Play Time.
- Similarly, such multiple user-defined events can be saved.

The screenshot shows a software interface for managing user-defined events. At the top, there are fields for 'Start Time 06/09/2015 18:16:35' and 'End Time 06/09/2015 18:17:14'. Below these is a 'Current Play Time' section with input fields for Month (6), Day (9), Year (2015), Hour (18), Min (16), and Sec (59). A red box highlights these fields, and an arrow points to them with the text 'Play time position as defined in the event'. Below the 'Current Play Time' is another set of input fields for Month (6), Day (9), Year (2015), Hour (18), Min (16), and Sec (47), with a 'Jump To Time' button. The 'User Defined Events' section has a 'Name' field with 'vijay' and two radio buttons: 'Event Time' (unselected) and 'Slider Time' (selected). Below the radio buttons is a table with two columns: 'Events' and 'Time'. The table contains one row with 'vijay' in the 'Events' column and '6/9/2015 18:16:59' in the 'Time' column. A red box highlights this row, and an arrow points to it with the text 'User defined Event'. To the right of the table are four buttons: 'Add', 'Delete', 'Clear', and 'Jump To Event'.

Play time position as defined in the event

User defined Event

Playback Options



- Provides Play, Continuous Playback, Pause, Stop, Backward, and Forward features to listen to a recorded file.

Thank You!