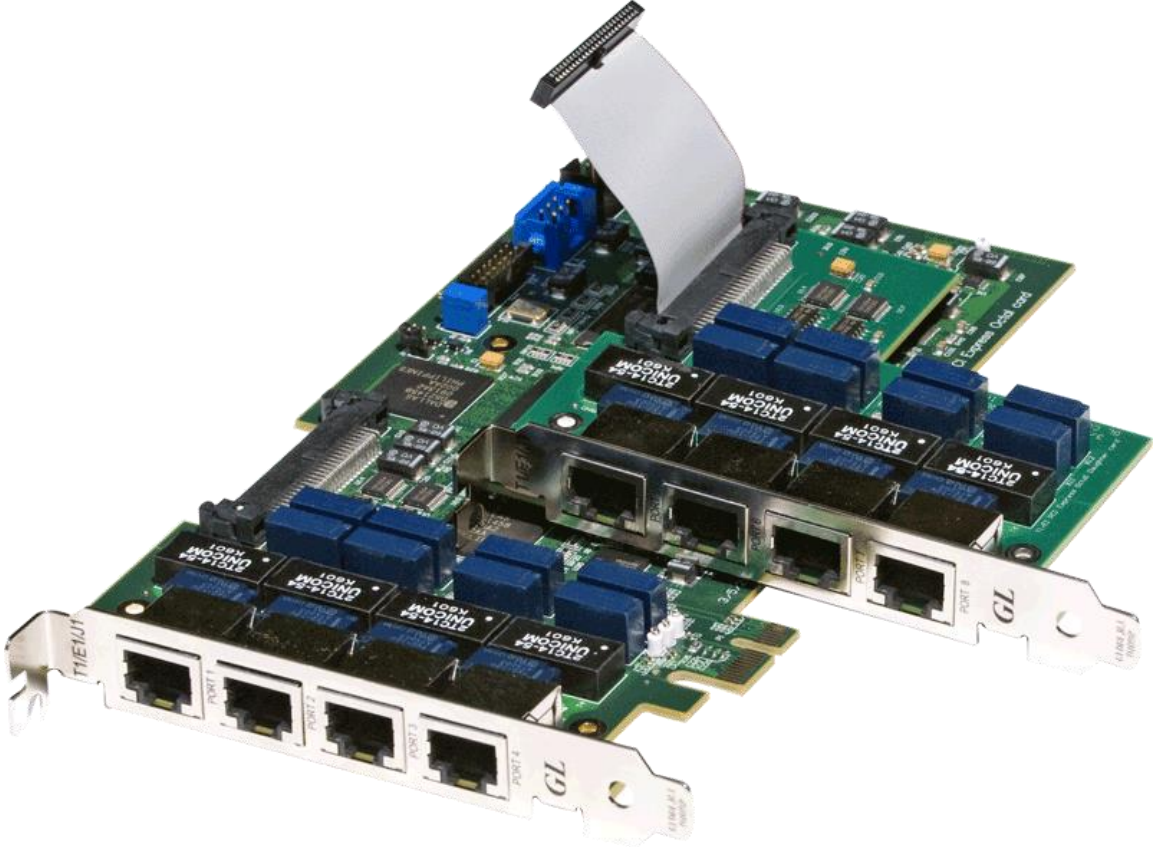

QUAD and OCTAL T1 E1 Boards



818 West Diamond Avenue - Third Floor, Gaithersburg, MD 20878
Phone: (301) 670-4784 Fax: (301) 670-9187 Email: info@gl.com
Website: <https://www.gl.com>

PCIe based Octal and Quad T1 E1 Board



Octal T1 E1 Board on Rack PC



- High density Performance
- Provides Four (4) or Eight (8) RJ-48 T1 E1 ports and multiples thereof. For example, configurations of 8, 12, 16, 64 T1 E1s in a single rack are possible

What is this hardware superior?

- High Density and High Speed – The boards (with Direct Memory Access) are significantly faster and significantly more efficient
- Supports high performance voice and data applications
- PCI Express x1 Lane/Board
- Reduces hardware costs and power consumption.

Main Features

- T1 or E1 interfacing – Software Selectable
- User friendly GUI for Windows® 10 OS
- Windows and Linux Drivers for Open Source Applications
- TDM, ISDN, SS7 – High Density Voice
- VoIP, Frame Relay, Multi-Link Frame Relay, PPP and Multi Link PPP, HDLC
- Most all basic applications and special applications are available for Quad and Octal T1 E1 cards including Comprehensive Analysis / Emulation of voice, digits, tones, fax, modem, raw data, and Echo Testing
- Call Recording, Generation, and Monitoring for hundreds to thousands of calls in one platform
- Capable of simulating as well as decoding and demodulating fax calls over T1/E1 lines using Fax Simulator and FaxScan™

Main Features (contd...)

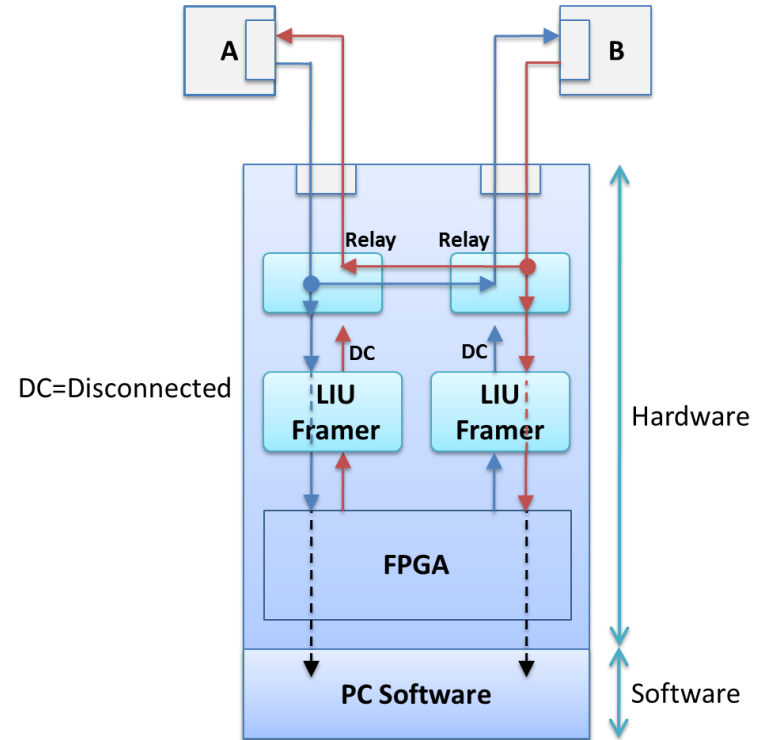
- Router with Multi T1 E1 WAN Interfaces i.e. MLPPP (Multi Link PPP)
- Media (VoIP) Gateway, IP PBX, and IVR Applications i.e. Asterisk (TM)
- “Cross-Port Through” and “Cross-Port Transmit” Modes – these configurations make cabling with Drop/Insert and Fail-Safe Inline Monitoring very easy
- Compatible with dual, quad, and higher core motherboards and software that simulate dual and quad cores (hyper-threading)

Quad and Octal Cards over Dual T1 E1 Universal Cards

| | Universal Dual T1 E1 Boards | Quad, Octal T1 E1 Boards |
|-------------------------|---|---|
| Number of Ports | 2 | 4, 8 |
| PCI Slot Type | Uses a PCI Bus / Connector | Uses a PCI Express x1 Bus / Connector |
| Output Frequency Offset | Each port can be individually set with an output frequency offset | A single frequency offset which is applied to all 8 ports |
| Pulse Mask Application | Supported | Not Supported |
| Jitter Measurement | Supported | Not Supported |
| External Clock Mode | Supported | No clock port connector |
| VF Drop and Insert | Supported | No VF connectors; Digital Drop/Insert supported |
| Speaker (on board) | Supported | No speakers |

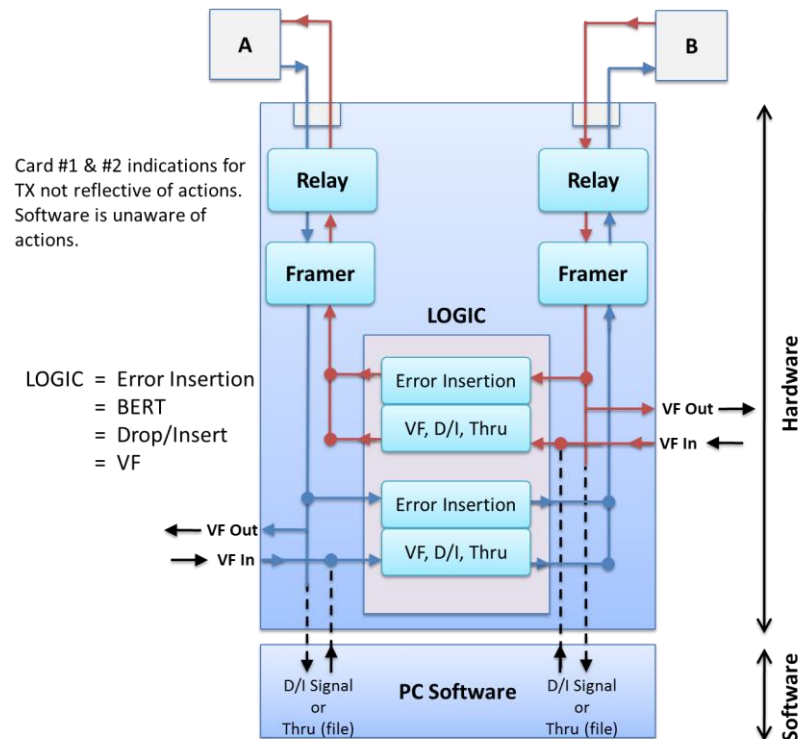
Cross-port Through Loopback

- Allows monitoring T1/E1 lines in-line while still being protected from loss of power to the board
- It is implemented entirely through relays and eliminates complex cabling
- The signal received on Card 2 (Port 2) is transmitted out onto Card 1 (Port 1)



Cross-port Transmit Mode Loopback

- The data that would normally be transmitted on Card 1 (Port 1) is diverted and transmitted on Card 2 (Port 2)
- The data that would normally be transmitted on Card 2 (Port 2) is diverted and transmitted on Card 1 (Port 1)
- It is useful for Drop and Insert and Error Injection applications in which the board analyzes and may insert traffic running between two pieces of T1/E1 equipment



T1 / E1 Basic Software

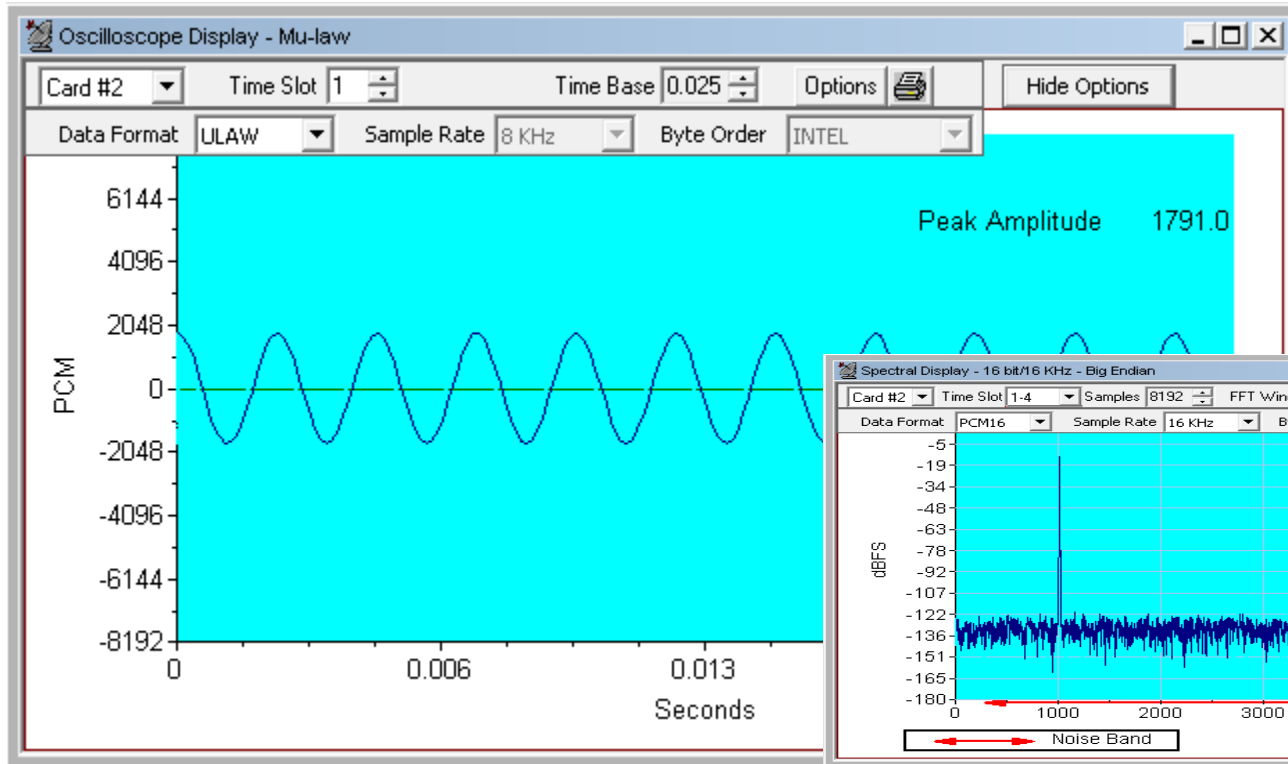
- T1 E1 Basic Software
 - Monitoring Options
 - Intrusive Testing
 - Windows Client / Server
 - Remote access to T1/E1 server
 - Clients - C++, Java, TCL

Monitoring Features

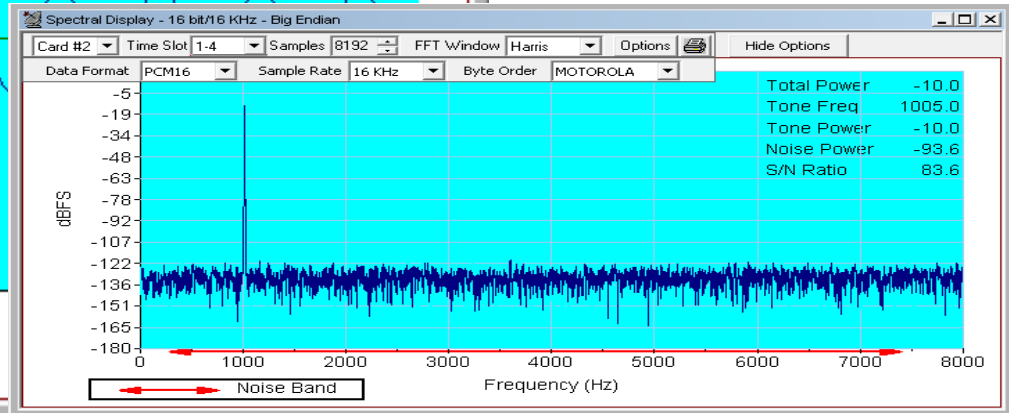
- Monitor T1/E1 Line
- Byte Values & Binary Byte Values
- Signaling bits, Power Level, DC Offset, & Frequency
- Multi-frames, and Real-time Multi-frames
- T1/E1 Data as Real-time Bitmap
- Timeslot Window
- ASCII Timeslot Display
- Oscilloscope & Power Spectral
- Audio Monitoring & Active Voice Level

Monitoring Features

Oscilloscope Display



Spectral Display



Intrusive Testing

- Drop and Insert
- Bit Error Rate Test
- Enhanced Bit Error Rate
- Transmit Tone
- Transmit Gaussian Noise
- Transmit Multi-frame
- Transmit Signaling Bits
- Precision Delay Measurement
- Rx-to-Tx Loop back
- Error Insertion
- DTMF / MF Capture
- Real-time Multichannel Audio Bridge
- Real-time Strip Chart

Enhanced BERT and TX Signaling BITS

Enhanced BERT

The screenshot shows the 'Enhanced BERT Untitled' application window. The main area is titled 'Tx Rx Settings - Card #1'. It includes a 'Tx Settings' section with a 'Result' tab, a 'Transmit Receive Coupled Settings (Tx=Rx)' checkbox, and an 'Apply To All Cards' button. Below this are sections for 'BER Patterns' (with a dropdown set to 'QRSS' and a 'User Defined Pattern' field), 'Timeslot Selection' (a grid for selecting timeslots 0-23), 'Error Rate (Logic Error)' (set to 10^{-3}), and 'Single Error Insertion' (with 'Logic Error' and 'BPV' buttons). A 'Sub Channel Selection' section is also visible. At the bottom, the 'Graph - Online Display' section shows a 'Real-Time Display' graph with a duration of 1 minute. The graph displays 'Errors' over time, with a legend for 'LOGIC_ERROR' (red), 'BPV' (green), and 'FRAME_ERROR' (blue). The status bar at the bottom indicates 'Ready'.

Transmit Signaling BITS

The screenshot shows the 'Tx Signaling Bits' configuration window. It features a table for configuring signaling bits for 24 timeslots (Ts# 00 to 23). Each row has checkboxes for 'A', 'B', 'C', and 'D' bits. A 'Signaling' dropdown menu on the right shows a list of bit patterns (e.g., 0000 A, 0001 B, ..., 1010 J), with '0101 F' currently selected. At the bottom, there are buttons for 'Save', 'Deselect All', 'Transmit', 'Load', 'Select All', and 'Close', along with a 'Device Selection' dropdown set to 'Card #1'.

| Ts# | A | B | C | D | Ts# | A | B | C | D | Ts# | A | B | C | D | | | |
|-----|-------------------------------------|---|---|---|-----|----|-------------------------------------|---|---|-----|---|----|-------------------------------------|---|---|---|---|
| 00 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 08 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 16 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 |
| 01 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 09 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 17 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 |
| 02 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 10 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 18 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 |
| 03 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 11 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 19 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 |
| 04 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 12 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 20 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 |
| 05 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 13 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 21 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 |
| 06 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 14 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 22 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 |
| 07 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 15 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 | 23 | <input checked="" type="checkbox"/> | 0 | 1 | 0 | 1 |

The screenshot shows the 'Signaling Bits' window for 'Card #2'. It displays a grid of 24 signaling bit patterns, one for each timeslot (TS 0 to TS 23). All patterns are '0101'.

| TS | Bits | TS | Bits | TS | Bits |
|------|------|-------|------|-------|------|
| TS 0 | 0101 | TS 8 | 0101 | TS 16 | 0101 |
| TS 1 | 0101 | TS 9 | 0101 | TS 17 | 0101 |
| TS 2 | 0101 | TS 10 | 0101 | TS 18 | 0101 |
| TS 3 | 0101 | TS 11 | 0101 | TS 19 | 0101 |
| TS 4 | 0101 | TS 12 | 0101 | TS 20 | 0101 |
| TS 5 | 0101 | TS 13 | 0101 | TS 21 | 0101 |
| TS 6 | 0101 | TS 14 | 0101 | TS 22 | 0101 |
| TS 7 | 0101 | TS 15 | 0101 | TS 23 | 0101 |

Client Server

- Allow the user (with an appropriate client) to operate analyzers remotely, write scripts for automation, or provide multi client connectivity to a single T1 E1 Analyzer.

```
E1_Regressiontest.gls - GLClient
File Edit View Connect Script Log User Help
get board count;
board_count=2
get response;
response = 500.0
go 0,0,0,0 #1;
OK
get signaling bits #2:1..15;
#2:1.sig_bits=0,0,0,0
#2:2.sig_bits=0,0,0,0
#2:3.sig_bits=0,0,0,0
#2:4.sig_bits=0,0,0,0
#2:5.sig_bits=0,0,0,0
#2:6.sig_bits=0,0,0,0

// setting both the cards to cas mode to get all four signaling bits
//getting the signaling bits transmitted from card#1
//cross connect card 1 and 2
go 0,0,0,0 #1;
get signaling bits #2:1..15;
// transmitting different formats of signaling bits as mentioned before for time slots 1 to 15 only
go 0,0,0,1 #1;
get signaling bits #2:1..15;
wait 2000;
go 0,0,1,0 #1;
get signaling bits #2:1..15;
wait 2000;
go 0,0,1,0 #1;
get signaling bits #2:1..15;
Ready

Untitled - GL Server
File Edit View Setup Help
Connected: client #404 at 192.168.1.63
404: set rx interface terminate #*;
404: set signaling mode cas #*;
404: set crc4 on#*;
404: set tx clock source internal #*;
404: set outward driver loopback off #*;
404: get tx clock source #*;
404: get outward driver loopback #*;
404: get rx line frequency #*;
404: get rx line level #*;
404: get all alarms #*;
404: get board count;
404: get response;
404: go 0,0,0,0 #1;
404: get signaling bits #2:1..15;
404: go 0,0,1,0 #1;
404: get signaling bits #2:1..15;
404: go 0,0,1,0 #1;
404: get signaling bits #2:1..15;
Ready
```

T1 / E1 Special Applications

- Protocol Analysis
 - ISDN, HDLC, SS7, Frame Relay, TRAU, CDMA, DCME, T1 Facility Data Link
 - E1 Maintenance Data Link, UMTS, PPP, ATM, GSM, V5.x, GPRS, GR303, SS1
- Protocol Emulation
 - ISDN, HDLC, MLPPP, MLPPP Conformance, CAS, TRAU, SS7, SS7 Conformance
 - GSM A, GSM Abis, MAP, CAMEL, Frame Relay, ATM IMA, SS1
- Capture, Analysis, & Emulation
 - BER, Playback
 - Manual & Automated Record / Playback files
 - Call Capture and Analysis (CCA)
 - Multiple Call Capture and Analysis

T1 / E1 Special Applications

- Voice Band Analysis Software
 - Call Data Records (CDR)
 - Voice Band Analyzer (VBA)
 - Fax Emulation and Analysis
- Fax Simulator
 - Fax Analysis using GLInsight™ or FaxScan™
- Echo Cancellation Testing / Compliance
 - Manual
 - Semi-automated
 - Automated
- WCS Modules
 - Transmission/reception of files/digits
 - Multi-channel BERT
 - DSP operations, Dynamic DSP capability
 - SA Bits/ FDL/ HDLC/ TRAU/ MC-MLPPP/ SS7/ ISDN / ML Frame Relay
- Signaling Transitions Recording
- Protocol Identifier
- Multi-Channel BERT
- Multiplex / Demultiplex Software
- Real-time Strip Chart
- Network Surveillance

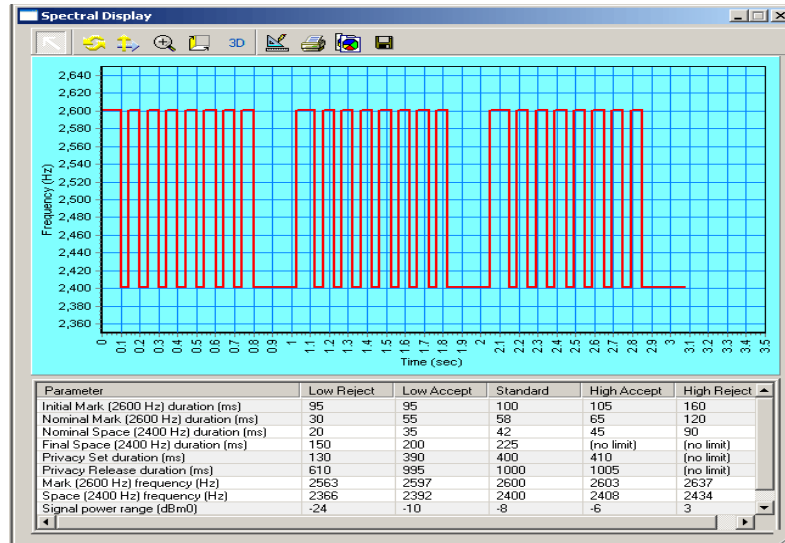
T1 / E1 Special Applications ...

Protocol Identifier

The screenshot shows the 'PC Protocol Classifier' window. The 'Protocol Set' is 'TRAU'. A 'Protocol Color Selection' dialog is open, listing protocols with color swatches: ALL (yellow), TRAU (orange), ATM (light blue), HDLC (light blue), MTP2 (red), LAPD (magenta), SS7 (orange), PPP (brown), ISDN (cyan), GSM (cyan), GSMABIS (cyan), and FRAMERELAY (grey). The main window displays a table of traffic streams (TS) across two ports (Port 1 and Port 2) with sub-channels. The protocols identified are ISDN, FRAMERELAY, TRAU, SS7, PPP, HDLC, MTP2, and LAPD.

| TS | Port 1 | Port 2 |
|----|----------------|----------------|
| 0 | SubChannel 1-8 | SubChannel 1-8 |
| 1 | ISDN | ISDN |
| 2 | FRAMERELAY | FRAMERELAY |
| 3 | TRAU | SS7 |
| 4 | TRAU | SS7 |
| 5 | TRAU | PPP |
| 6 | | TRAU |
| 7 | | TRAU |
| 8 | | TRAU |
| 9 | HDLC | HDLC |
| 11 | MTP2 | HDLC |
| 15 | HDLC | LAPD |

SS1 Analyzer & Emulator



Call Capture and Analysis

Call Capture & Analysis

File Capture Settings

Capture Directory
D:\CapturedFiles\ManualCall1210091146

Capture File #1
Dec10w01.000

Bytes Captured: 17024

Capture File #2
Dec10E01.000

Bytes Captured: 17024

Signaling File: Dec1001.0

Timeslot Activity

| CC No | Capture Name | West(Port) | East(Port) | Timeslots | Storage Location | Trigger Option | Action |
|-------|--------------|------------|------------|-----------|--|----------------|--------|
| 1 | CCA1 | 1 | 2 | 0-23 | C:\Program Files\GL Communications Inc\Dual Ultra HD T1 Analyzer | Edit | Abort |
| 2 | CCA2 | 1 | 2 | 0-23 | C:\Program Files\GL Communications Inc\Dual Ultra HD T1 Analyzer | Edit | Abort |
| 3 | CCA3 | 1 | 2 | 0-23 | C:\Program Files\GL Communications Inc\Dual Ultra HD T1 Analyzer | Edit | Abort |
| 4 | CCA4 | 1 | 2 | 0-23 | C:\Program Files\GL Communications Inc\Dual Ultra HD T1 Analyzer | Edit | Abort |

| TS | TS Status | West Filename | Bytes Captured(West) | East Filename | Bytes Captured(East) |
|----|-----------|--|----------------------|---|----------------------|
| 0 | Capturing | C:\Program Files\GL Communications In... | 742224 | C:\Program Files\GL Communications Inc\Dual Ultra ... | 742224 |
| 1 | Capturing | C:\Program Files\GL Communications In... | 742224 | C:\Program Files\GL Communications Inc\Dual Ultra ... | 742224 |
| 2 | Capturing | C:\Program Files\GL Communications In... | 742224 | C:\Program Files\GL Communications Inc\Dual Ultra ... | 742224 |
| 3 | Capturing | C:\Program Files\GL Communications In... | 742224 | C:\Program Files\GL Communications Inc\Dual Ultra ... | 742224 |
| 4 | Capturing | C:\Program Files\GL Communications In... | 742224 | C:\Program Files\GL Communications Inc\Dual Ultra ... | 742224 |
| 5 | Capturing | C:\Program Files\GL Communications In... | 742224 | C:\Program Files\GL Communications Inc\Dual Ultra ... | 742224 |

CCA Details Timeslots Map

Multiple Call Capture & Analysis

Protocol Analysis

PPP Protocol Analysis

PPP Protocol Analysis PPP

File View Capture Statistics Database Configure Help

| Dev | TSlot | SubCh | Fram... | TIME (Relative) | Len | Error | PPP Laye... | LCP Code | IPCP Code | BCF |
|-----|-------|-------|---------|-----------------|-----|-------|--------------|--------------|-----------|-----|
| ✓ 1 | 1-31 | | 0 | 00:00:00.000000 | 14 | | Link Control | Echo-Request | | |
| ✓ 2 | 1-31 | | 1 | 00:00:00.000625 | 14 | | Link Control | Echo-Reply | | |
| ✓ 2 | 1-31 | | 2 | 00:00:00.088625 | 14 | | Link Control | Echo-Request | | |
| ✓ 1 | 1-31 | | 3 | 00:00:00.092000 | 14 | | Link Control | Echo-Reply | | |
| ✓ 1 | 1-31 | | 4 | 00:00:09.993996 | 14 | | Link Control | Echo-Request | | |
| ✓ 2 | 1-31 | | 5 | 00:00:09.994625 | 14 | | Link Control | Echo-Reply | | |
| ✓ 2 | 1-31 | | 6 | 00:00:10.082625 | 14 | | Link Control | Echo-Request | | |
| ✓ 1 | 1-31 | | 7 | 00:00:10.083000 | 14 | | Link Control | Echo-Reply | | |

Card1 TimeSlots=1-31 Frame=0 at 00:00:00.000000 OK Len=14
HDLC Frame Data + FCS
===== PPP Link Layer =====
Address = 11111111 (255)
Ctl = 00000011 (3)
Protocol = 11000000 00100001 Link C
===== Link Control Layer =====
Code = 00001001 Echo-Request
Identifier = 172 (xAC)
Length = 8 (x0008)
Magic Number = 165410210 (x00C102F)

Hex Dump of the Frame Data
FF 03 C0 21 09 AC 00 08 09 DC 19 2E 85 63 ÿ À ! ~ Ü .ic

Off-line Viewing D:\misc\MLPPP.hdl 23 726 Frames

PPP Packet Data Analysis

Traffic Analyzer - Summary View

File View Call Summary Settings Help

Sip Calls Show All Sessions

| Call # | SSRC | Payload | Packet Received | Conversat MOS/R... | Listening MOS/R... | Packets Discard... | Missing Packets... | Duplicate Packets... | Out Of Sequen... | Average Gap(mst) | Average Delay | Average Jitter | Average Inter A... |
|-------------|----------------------------|---------------------------|-----------------------------|--|--------------------|--------------------|--------------------|----------------------|------------------|------------------|---------------|----------------|--------------------|
| Call#000001 | Caller:0001@192.168.40.245 | Caller:0001@192.168.20.20 | CallId:GLPG1413613128143612 | Call StartTime:2011-11-23 09:56:52.064 | Call C... | | | | | | | | |
| 1 | 22145... | PCMU... | 1 | 0.00 / 0 | 0.00 / 0 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0.00 | 0.00 | 0.00 | 0 |
| 2 | 22117... | PCMU... | 1 | 0.00 / 0 | 0.00 / 0 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0.00 | 0.00 | 0.00 | 0 |
| Call#000002 | Caller:0001@192.168.40.245 | Caller:0001@192.168.20.20 | CallId:GLPG1421035128143618 | Call StartTime:2011-11-23 09:56:59.475 | Call C... | | | | | | | | |
| 1 | 22141... | PCMU... | 1 | 0.00 / 0 | 0.00 / 0 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0.00 | 0.00 | 0.00 | 0 |
| 2 | 22194... | PCMU... | 1 | 0.00 / 0 | 0.00 / 0 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0.00 | 0.00 | 0.00 | 0 |
| Call#000003 | Caller:0002@192.168.40.245 | Caller:0002@192.168.20.20 | CallId:GLPG1428645128143624 | Call StartTime:2011-11-23 09:57:07.082 | Call C... | | | | | | | | |
| 3 | 22137... | PCMU... | 1 | 0.00 / 0 | 0.00 / 0 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0.00 | 0.00 | 0.00 | 0 |
| 3 | 22168... | PCMU... | 1 | 0.00 / 0 | 0.00 / 0 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0 / 0.00 | 0.00 | 0.00 | 0.00 | 0 |

Active Calls

Counter Type Counters

| | |
|-------------------------|------|
| Total Packet Count | 8472 |
| Total Calls | 67 |
| Active Calls | 0 |
| Completed Calls | 24 |
| Pruned Calls(Completed) | 0 |

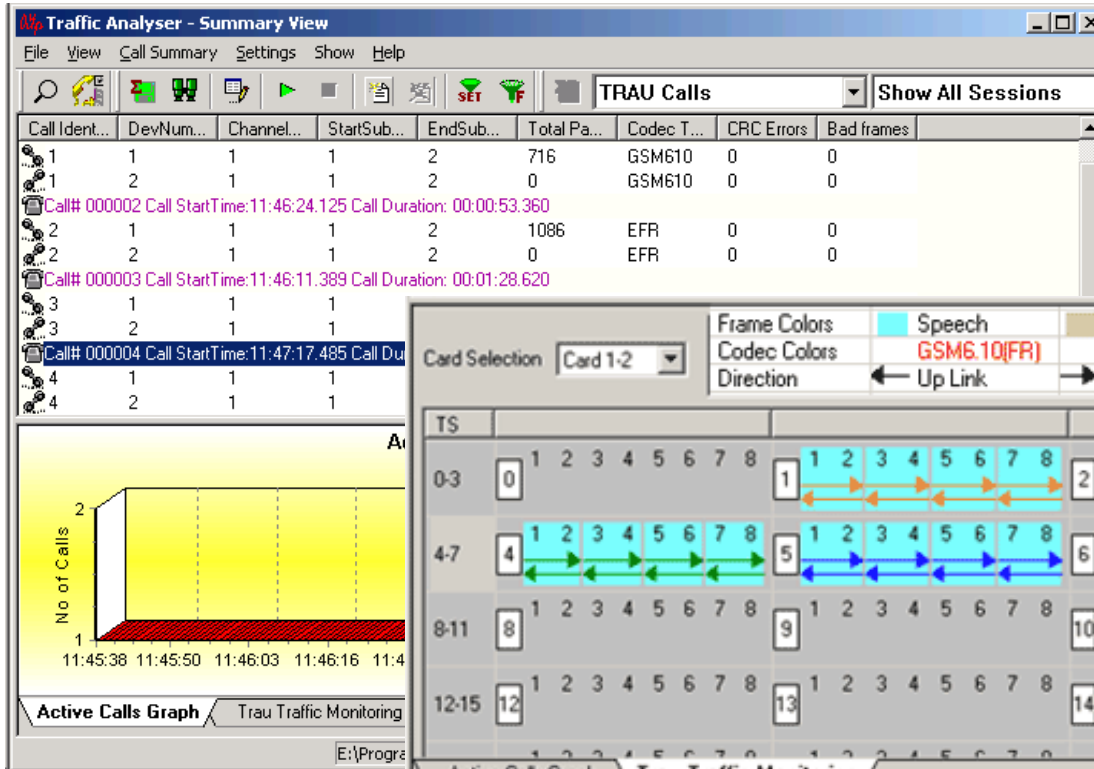
Counter Type Counters

| | |
|-------------------|------|
| Total SIP Packets | 2904 |
| SIP Calls | 67 |
| SIP Active Calls | 0 |

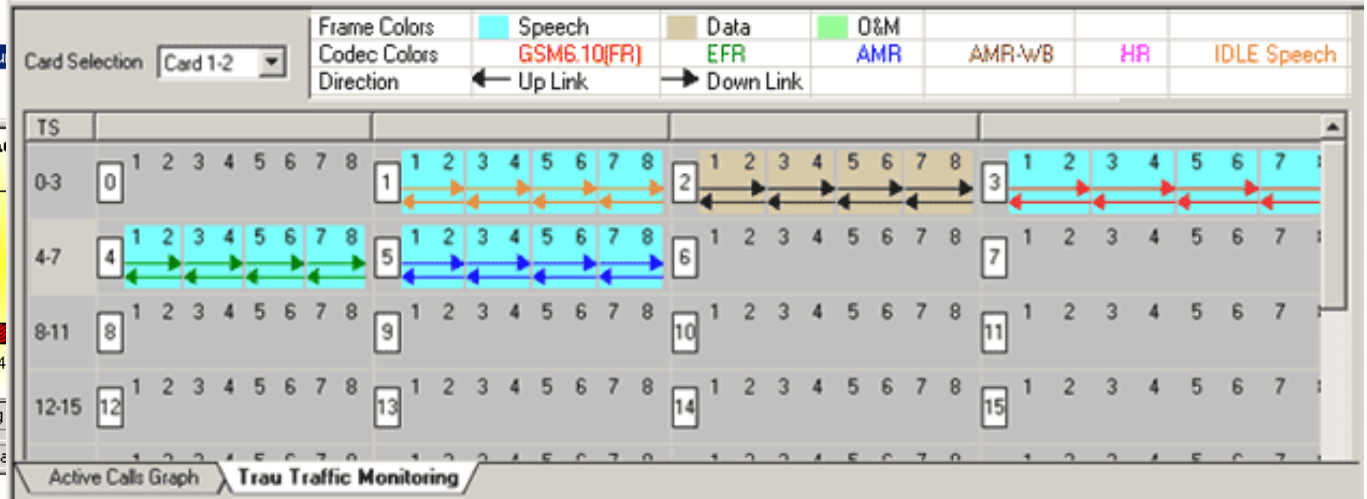
Active Calls Graph Average Jitter Distribution E-Model RTP Packets Graph SIP / H323 / RTP / MEGACO /

Protocol Analysis

TRAU Packet Data Analysis - Active Calls Graphs



TRAU Traffic Monitoring



Protocol Emulation

GSM Call Generation

The screenshot shows the 'Call Generation - MTC_BulkCall' application window. It features a table with columns: Sr No, Script Name, Profile, Call Info, Script Execution, Status, Events, Events Profile, Result, Total Iterations, and Completed Iterations. Below the table are buttons for 'Add', 'Delete', 'Insert', 'Start', 'Abort', 'Refresh', and 'Start'. At the bottom, there are tabs for 'Scripts', 'Message Sequence', 'Event Config', 'Script Flow', and 'Profile'. The 'Message Sequence' tab is active, showing a diagram with 'MAPS' and 'DUT' components. A message labeled 'PAGING CoMmand' is shown being sent from MAPS to DUT at 11:44:13.296000.

| Sr No | Script Name | Profile | Call Info | Script Execution | Status | Events | Events Profile | Result | Total Iterations | Completed Iterations |
|-------|---------------|----------|------------|------------------|--------|--------|----------------|--------|------------------|----------------------|
| 1 | BSC_MTC_Ce... | Pro0.xrn | 0x99999999 | Abort | | None | | Pass | Infinite | 0 |
| 2 | BSC_MTC_Ce... | Pro1.xrn | 0x22222222 | Start | | None | | Pass | 1 | 0 |
| 3 | BSC_MTC_Ce... | Pro2.xrn | 0x33333333 | Start | | None | | Pass | Infinite | 0 |
| 4 | BSC_MTC_Ce... | Pro3.xrn | 0x44444444 | Abort | | None | | Pass | Infinite | 0 |
| 5 | BSC_MTC_Ce... | Pro4.xrn | 0x55555555 | Start | | None | | Pass | Infinite | 0 |
| 6 | BSC_MTC_Ce... | Pro5.xrn | 0x66666666 | Abort | | None | | Pass | Infinite | 0 |
| 7 | BSC_MTC_Ce... | Pro6.xrn | 0x77777777 | Abort | | None | | Pass | Infinite | 0 |
| 8 | BSC_MTC_Ce... | Pro7.xrn | 0x88888888 | Abort | | None | | Pass | Infinite | 0 |

GSM Call Reception

The screenshot shows the 'Call Reception' application window. It features a table with columns: Sr No, Script Name, Call Info, Script Execution, Status, Events, Events Profile, and Results. Below the table are buttons for 'Abort', 'Auto Trash', and 'Trash'. At the bottom, there are tabs for 'Scripts', 'Message Sequence', 'Event Config', 'Script Flow', and 'Profile'. The 'Message Sequence' tab is active, showing a diagram with 'MAPS' and 'DUT' components. Messages shown include 'PAGING CoMmand' (11:41:58.421000), 'CHANnel ReQuireD' (11:41:58.421000), 'Immediate Assignment' (11:41:59.515000), 'PAGING RESPONSE' (11:41:59.515000), and 'AUTHENTICATION REQUEST' (11:41:59.859000). A 'BTSM Layer' window is also visible on the right, displaying protocol details.

| Sr No | Script Name | Call Info | Script Execution | Status | Events | Events Profile | Results |
|-------|-----------------------|------------|------------------|---------------------------|-----------|----------------|---------|
| 1 | MTC.gls | 9341141850 | Abort | Transmitting File | Terminate | | Pass |
| 2 | MTC.gls | 9341141851 | Completed | Establishing TRAU session | None | | Pass |
| 3 | RX_Channel Activat... | 4 | Completed | Transmitting File | None | | Pass |
| 4 | MTC.gls | 9341141852 | Abort | Transmitting File | Terminate | | Pass |
| 5 | RX_Channel Activat... | 4 | Completed | Transmitting File | None | | Pass |
| 6 | MTC.gls | 9341141853 | Abort | Transmitting File | Terminate | | Pass |
| 7 | RX_Channel Activat... | 4 | Completed | Transmitting File | None | | Pass |
| 8 | MTC.gls | 9341141854 | Abort | Transmitting File | Terminate | | Pass |
| 9 | RX_Channel Activat... | 4 | Completed | Transmitting File | None | | Pass |
| 10 | RX_Channel Activat... | 4 | Completed | Transmitting File | None | | Pass |
| 11 | MTC.gls | 9341141855 | Abort | Transmitting File | Terminate | | Pass |
| 12 | RX_Channel Activat... | 4 | Completed | Transmitting File | None | | Pass |
| 13 | MTC.gls | 9341141856 | Abort | Transmitting File | Terminate | | Pass |
| 14 | MTC.gls | 9341141857 | Completed | RR Connection Failed | None | | Unknown |

Thank You