GL Communications Inc.
T3 / E3 / OC3/12 / STM1/4 Analysis Products Price List
Revised: April 22, 2025

Part Number	Description	Notes
	OC3/12 STM1/4 Analysis and Emulation Related Hardware & Software - LightSpeed	
LTS100 LTS105	Lightspeed1000™ - Dual OC3/12 STM1/4 PCIe Card Lightspeed1000™ - Portable Dual OC3/12 STM1/4 USB Unit	PCIe Card or Portable USB Unit with Quad Interfaces: 2 - OC3 / OC12 / STM1 / STM4, 2 - GigE, and a single USB 2.0; **requires** LTS200 or LTS201, or LTS300 or LTS301, or LTS501 or LTS502;
	UnChannelized Analysis and Emulation Software Applications - LightSpeed	
LTS200 LTS201	OC3/STM1 ATM Monitor, BERT, Tx/Rx Test OC3/STM1 PoS Monitor, BERT, Tx/Rx Test	Basic ATM Monitoring, Test, and BERT Basic PoS Monitoring, Test, and BERT
LTS202	Record Playback for OC3/STM1 ATM	Wirespeed capture and playback to / from hard disk w/ time-stamping; STS-3C/VC-4
LTS203	Record Playback for OC3/STM1 PoS	Wirespeed capture and playback to / from hard disk w/ time-stamping; STS-3C/VC-4
LTS204 LTS205 LTS215	Protocol Analysis for OC3/STM1 ATM Protocol Analysis for OC3/STM1 PoS Packet Data Analysis (PDA) for PoS	AAL2, AAL5 Protocol Analysis PoS Protocol Analysis Packet Data Analysis (PDA) for PoS
LTS206 LTS216	Protocol Analysis for OC3/STM1 UMTS Packet Data Analysis (PDA) for UMTS	UMTS Protocol Analysis; requires LTS200 IuCs Call Analysis for UMTS, also called PDA
LTS214	OC3/STM1 SSCOP Server	SSCOP Server Emulates ATM Layer 2 and Adaptation Layer (AAL2/5) Services – used with MAPS -IuCs
LTS217	OC3/STM1 AAL2 Traffic Core	Traffic Simulation over AAL2 using various codecs, ability to Tx Rx voice files, tones, digits, etc, can be used with LTS220, requires additional codec licenses
LTS220	OC3/STM1 MAPS UMTS IuCS over ATM	IuCS Interface Emulation over ATM, simulates RNC and MSC, requires LTS214
LTS207 LTS208	Delay Emulaton for OC3/STM1 PoS payloads Delay Emulation for OC3/STM1 ATM payloads	Delay Emulation for PoS from 1 ms to 500 ms Delay Emulation for ATM from 1 ms to 500 ms
LTS209	SONET / Ethernet Converter	Converts ATM within SONET to ATM within Ethernet and vice versa; includes LTS115, LTS200, LTS202, SA005lts 1 RU mTOP enclosure for LightSpeed1000 with Windows 10/64 & TPM 2.0 chip, Intel NUC, 8GB RAM, USB 3.0 Hub, 240 GB SSD, custom software - TBD
LTS300 LTS301	OC3/STM1/OC12/STM4 ATM Monitor, BERT, Tx/Rx Test OC3/STM1/OC12/STM4 PoS Monitor, BERT, Tx/Rx Test	Basic ATM Monitoring, Test, and BERT, includes OC3/STM1 Basic PoS Monitoring, Test, and BERT, includes OC3/STM1
LTS302	Record Playback for OC3/STM1/OC12/STM4 ATM	Wirespeed capture and playback to / from hard disk w/ time-stamping; STS-12C/VC-4-4C and STS-3C/VC-4
LTS303	Record Playback for OC3/STM1/OC12/STM4 PoS	Wirespeed capture and playback to / from hard disk w/ time-stamping; STS-12C/VC-4-4C and STS-3C/VC-4

LTS304	Protocol Analysis for OC3/STM1/OC12/STM4 ATM	AAL2, AAL5 Protocol Analysis
LTS305	Protocol Analysis for OC3/STM1/OC12/STM4 PoS	PoS Protocol Analysis
LTS315	Packet Data Analysis (PDA) for PoS	Packet Data Analysis (PDA) for PoS
LTS306	Protocol Analysis for OC3/STM1/OC12/STM4 UMTS	UMTS Protocol Analysis; requires LTS300
LTS316	Packet Data Analysis (PDA) for UMTS	IuCs Call Analysis for UMTS, also called PDA
LTS314	OC3/STM1/OC12/STM4 SSCOP Server	SSCOP Server Emulates ATM Layer 2 and Adaptation Layer (AAL2/5) Services – used with MAPS -IuCs
LTS317	OC3/STM1/OC12/STM4 AAL2 Traffic Core	Traffic Simulation over AAL2 using various codecs, ability to Tx Rx voice files, tones, digits, etc, can be used with LTS320, requires additional codec licenses
LTS320	OC3/STM1/OC12/STM4 MAPS UMTS IuCS over ATM	IuCS Interface Emulation over ATM, simulates RNC and MSC, requires LTS314
LTS307	Delay Emulaton for OC3/STM1/OC12/STM4 PoS payloads	Delay Emulation for PoS from 1 ms to 500 ms
LTS308	Delay Emulation for OC3/STM1/OC12/STM4 ATM payloads	Delay Emulation for ATM from 1 ms to 500 ms
	Channelized Analysis and Emulation Software Applications - LightSpeed	
	The following are only available for PCIe version of Lightspeed 1000	**Ports = Duplex for Analysis, Simplex for Emulation**
LTE001	E1 Personality for Channelized	E1 Personality for Channelized
LTT001	T1 Personality for Channelized	T1 Personality for Channelized
LTS501	OC3/STM1 RAW	Rx/Tx RAW – Channelized / Unchannelized
LTS502	OC3/STM1/OC12/STM4 RAW	Rx/Tx RAW – Channelized / Unchannelized
LTS503	Record Playback for OC3/STM1 RAW	Wirespeed capture and playback to / from hard disk w/ time-stamping
LTS504	Record Playback for OC3/STM1/OC12/STM4 RAW	Wirespeed capture and playback to / from hard disk w/ time-stamping
LTS108	Any 16 Ports Channelized Lic for OC3/12, STM1/4	Any 16 Ports Chan Lic for OC3/12, STM1/4, n=1
LTS116	Any 32 Ports Channelized Lic for OC3/12, STM1/4	Any 32 Ports Chan Lic for OC3/12, STM1/4, n=2
LTS124	Any 48 Ports Channelized Lic for OC3/12, STM1/4	Any 48 Ports Chan Lic for OC3/12, STM1/4, n=3
LTS164	All Ports Channelized Licenses for OC3, STM1	All Ports Chan Lic for OC3, STM1 (84x2 for T1, 63x2 for E1), n=3
LTS464	All Ports Channelized Licenses OC12, STM4	All Ports Chan Lic for OC12, STM4 (84x4 for T1, 63x4 for E1), n=3
LTEXXX	Channelized Options for E1	Channelized Options for E1 (ISDN, SS7, HDLC)
LTTXXX	Channelized Options for T1	Channelized Options for T1 (ISDN, SS7, HDLC)
		See T1 E1 Price List for Channelized Options
LTS111	API Software Toolkit for Custom Development **(Linux)**	Develop Custom Applications for OC3/12 STM1/4 Cards for Linux; Requires C++ dev skills

	OC3/12 STM1/4 Related Accessories and Cables – LightSpeed & SonetExpert	
IPN1310a	SFP Transceiver for OC-3/STM-1 and OC-12/STM-4 Optical, LC, Single-Mode, 1310nm	Generic SFP for Optical, Duplex LC Connector SM, 1310nm, IR (Intermediate Range, 15 km)
IPN850a	SFP Transceiver for OC-3/STM-1 and OC-12/STM-4 Optical, LC, Multi-Mode, 850 nm or 1310 nm	Generic SFP for Optical, Duplex LC Connector, MM, 850 nm or 1310 nm, SR (Short Range, 550m)
SA019a SA019b SA019c SA019d	Fiber Optic Cable, Single-Mode, Duplex LC to LC, 2m Fiber Optic Cable, Single-Mode, Duplex LC to SC, 2m Fiber Optic Cable, Multi-Mode, Duplex LC to LC, 2m Fiber Optic Cable, Multi-Mode, Duplex LC to SC, 2m	2m FO Jumper, 9/125 SM, Ø2mm 2m FO Jumper, 9/125 SM, Ø2mm 2m FO Jumper, 50/125 MM, OM3 (10G), Ø2mm 2m FO Jumper, 50/125 MM, OM3 (10G), Ø2mm
SA019st	Fiber Optic T-tap, Duplex LC, Single-Mode	Fiber Optic T-tap for Non-Intrusive Monitoring, Duplex LC Connectors, 9/125 SM, 70/30 split, includes one SA019a; requires one SA019sc
SA019sc	Fiber Optic Analyzer Cable, Single-Mode, Duplex LC to Dual Duplex LC, 3m	3m FO Jumper, 9/125 SM, Duplex LC-Dual Duplex LC, Ø3mm, Special Analyzer Cable for use with SA019st
SA019mt	Fiber Optic T-tap, Duplex LC, Multi-Mode	Fiber Optic T-tap for Non-Intrusive Monitoring, Duplex LC Connectors, 50/125 MM, 70/30 split, includes one SA019c; requires one SA019mc
SA019mc	Fiber Optic Analyzer Cable, Multi-Mode, Duplex LC to Dual Duplex LC, 3m	3m FO Jumper, 50/125 MM, Duplex LC-Dual Duplex LC, Ø3mm, Special Analyzer Cable for use with SA019mt
SA019ska	**OC3/12, STM1/4** Fiber Optic Single-Mode T-tap Kit with Required Cables and SFP Transceivers	Kit Includes: (1) SA019st, (1) SA019sc, (2) IPN1310a, (2) SA019a, (2) SA019b
SA019mka	**OC3/12, STM1/4** Fiber Optic Multi-Mode T-tap Kit with Required Cables and SFP Transceivers	Kit Includes: (1) SA019mt, (1) SA019mc, (2) IPN850a, (2) SA019c, (2) SA019d
PXN00	Optical Multiport Tap/Repeater	1x5 or 2x3 Optical Signal Tap/Repeater; repeats 10/100/1000, 2.5 GigE, OC3/STM1, OC12/STM4, OC48/STM16 optical signals; multirate SFPs and FO cables extra / optional for multimode and/or singlemode; multiple units into MT002 rack enclosure optional
PXN01	Multirate multimode SFPs and FO Cables	Six (6) - 10/100/1000 and 2.5 GigE multimode SFPs and multimode FO cables
PXN02	Multirate singlemode SFPs and FO Cables	Six (6) - 10/100/1000 and 2.5 GigE singlemode SFPs and singlemode FO cables
	SonetExpert™(OC-3/STM-1 OC-12/STM-4) Analysis and Emulation Related Hardware & Software	
SEU100	SonetExpert™ - Dual OC3/12 STM1/4 USB Unit	Portable USB Unit with 2 Optical Interfaces for Channelized OC3 / OC12 / STM1 / STM4 applications, such as T1 E1, and

		Unchannelized applications such as RAW, PoS, and ATM up to OC192/STM64
		- single USB 3.0; - includes OC3/OC12/STM1/STM4 SFPs (customer preference of MM or SM); may require additional SFPs for OC-48 and OC-192. - includes SCAN feature to analyze unknown contents of Sonet/SDH signals. Requires SEU503 license. - requires additional software for UnChannelized, see UnChannelized section in Price List - requires additional software for RAW (SEUE02/SEUT02) and T1 E1 personality (SEE001/SET001) for Channelized - same platform as PXN100 / PXN101 and upgradeable for Ethernet functionality testing
SEU110	SonetExpert™ Upgrade to PXN100	Upgrades the SonetExpert™ hardware platform to perform PXN100 functions
SEU120	SonetExpert™ Upgrade to PXN101	Upgrades the SonetExpert™ hardware platform to perform PXN101 functions, requires SEU110
	SonetExpert UnChannelized Analysis and Emulation Software Applications	
SEU901	UnChannelized BERT for OC3 / STM1 and OC12 / STM4 Rates	UnChannelized BERT on OC3 / STM1 and OC12 / STM4 Rates for SEU100
SEU902	UnChannelized BERT for OC3 / STM1, OC12 / STM4, OC48 / STM16, OC192 / STM64 Rates	UnChannelized BERT on OC3 / STM1, OC12 / STM4, OC48 / STM16, and OC192 / STM64 Rates for SEU100; includes SEU901
SEU300	OC3/STM1/OC12/STM4 ATM Monitor, BERT, Tx/Rx Test	Basic ATM Monitoring, Test, and BERT
SEU301	OC3/STM1/OC12/STM4 PoS Monitor, BERT, Tx/Rx Test	Basic PoS Monitoring, Test, and BERT
SEU302	Record Playback for OC3/STM1/OC12/STM4 ATM	Wirespeed capture and playback to / from hard disk w/ time-stamping; STS-12C/VC-4-4C and STS-3C/VC-4
SEU303	Record Playback for OC3/STM1/OC12/STM4 PoS	Wirespeed capture and playback to / from hard disk w/ time-stamping; STS-12C/VC-4-4C and STS-3C/VC-4
SEU304	Protocol Analysis for OC3/STM1/OC12/STM4 ATM	AAL2, AAL5 Protocol Analysis
SEU305	Protocol Analysis for OC3/STM1/OC12/STM4 PoS	PoS Protocol Analysis
SEU503	Record Playback for OC3/STM1/OC12/STM4 RAW	Wirespeed capture and playback to/from hard disk w/ time-stamping; includes RAW Analyzer for display and capture of STM 1 and STM-4 frames; Also includes SCAN feature to analyze unknown contents of Sonet/SDH signals.
SEU315	Packet Data Analysis (PDA) for PoS	Packet Data Analysis (PDA) for PoS

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	SonetExpert Channelized Analysis and Emulation Software Applications	
	One "channel" is duplex: (one Tx, one Rx), or (two Rx), or (two Tx)	
SEUE02	OC3/STM1 RAW	OC3/STM1 Basic License; permits visibility into all channels
SEUT02	OC3/OC12 and STM1/STM4 RAW	OC3/STM1 and OC12/STM4 Basic Licenses; permits visibility into all channels
	Basic Applications	
SEE001	SonetExpert™ Basic E1 Software	E1 Personality for Channelized; view / test all E1s, DS0s, includes MC-BERT
SET001	SonetExpert™ Basic T1 Software	T1 Personality for Channelized; view / test all T1s, DS0s, includes MC-BERT
	Optional Application Licenses	
SEU116	16 Channels for OC3/STM1	Any 16 T1 E1 Chan Lic for OC3/STM1
SEU132	32 Channels for OC3/STM1	Any 32 T1 E1 Chan Lic for OC3/STM1
SEU164	64 Channels for OC3/STM1	Any 64 T1 E1 Chan Lic for OC3/STM1
SEU128	128 Channels for OC3/STM1	Any 128 T1 E1 Chan Lic for OC3/STM1 (note, max for E1 is 126)
SEU196	All Channels (168 for T1, 126 for E1) for OC3/STM1	All (84x2 T1s, 63x2 E1s) Chan Lic for OC3/STM1
SEU416	16x4 Channels for OC3/STM1 and OC12/STM4, includes SEU116	Any 64 T1 E1 Chan Lic for OC3/OC12/STM1/STM4
SEU432	32x4 Channels for OC3/STM1 and OC12/STM4, includes SEU132	Any 128 T1 E1 Chan Lic for OC3/OC12/STM1/STM4
SEU464	64x4 Channels for OC3/STM1 and OC12/STM4, includes SEU164	Any 256 T1 E1 Chan Lic for OC3/OC12/STM1/STM4
SEU428	128x4 Channels for OC3/STM1 and OC12/STM4, includes SEU128	Any 512 T1 E1 Chan Lic for OC3/OC12/STM1/STM4
SEU464	All Channels (672 for T1, 504 for E1) for OC3/STM1 and OC12/STM4, includes SEU196	All (84x8 T1s, 63x8 E1s) Chan Lic for OC3/OC12/STM1/STM4
SEEXXX	Channelized Options for E1 in 16 Ch increments	Channelized Options for E1 (16, 32, ..)
SETXXX	Channelized Options for T1 In 16 Ch increments	Channelized Options for T1 (16, 32, ..)
		See T1 E1 Price List for Channelized Optional Apps
MT001	mTOP 1U Rack Mount Enclosure w/SBC	1U 19" Rack Mount Enclosure w/Rails, Multiple Interface TDM/Optical/Packet w/Single Board Computer (SBC) (Specs: 240 GB SSD, 8GB RAM, i3 Equivalent, Win 10/64), USB 3.0 Hub, ATX Power Supply, Can house any combination of three (3) USB based units - PacketExperts, tProbes, Dual UTAs, and LightSpeeds; Optional VGA to mini DP interface cable
MT001E	mTOP with i7	Same as MT001 but with Intel Core i7;
MT002	mTOP 1U Rack Mount Enclosure w/o SBC	w/o SBC, but for use with MT001 for Daisy Chain or other Rack PCs
MT005	mTOP Probe	Portable stand-alone unit, includes i3 Intel NUC (w 8GB RAM, 256 GB HDD, Win 10/64); packaged in a more compact design with support for a single GL board; Can house any one of the USB based units - PacketExperts, tProbes, Dual UTAs, T3/E3 units and LightSpeeds; Optional VGA to mini DP interface cable. Dimensions: 264mm long, 76.6mm high, and 212.6mm wide

Prices are subject to change

MT005E	mTOP Probe with i7	Same as MT005 but with Intel Core i7;
	USB Based T3/E3 Analysis Related Hardware & Software	
TE3001	Dual T3 E3 / T1 E1 Hardware USB Base Unit (Price Reduction)	Portable USB Unit – Requires TT3001 or EE3001; If supplied with Notebook PC, requires medical power supplies, 9v, 18 watts, 2A, to pass on ground to USB T3 E3.
TT3001	T3 / T1 / E1 Analyzer Basic Software	w/ Basic Software for WIN 10, 64-bit
EE3001	E3 / E1 Analyzer Basic Software	w/ Basic Software for WIN 10, 64-bit
TE3003	T3 E3 Hardware and Software Support	T3 E3 USB Extended 1 yr. Software and Hardware Warranty and Support – 10% of total system price
TT3020	T3 Record Playback Software (GUI)	File Record / Send over T3 – framed & unframed
EE3020	E3 Record Playback Software (GUI)	File Record / Send over E3 – framed & unframed
TT3090	T3 HDLC Tx/Rx Test + Analyzer (GUI)	Send Receive Analyze HDLC over T3
EE3090	E3 HDLC Tx/Rx Test + Analyzer (GUI)	Send Receive Analyze HDLC over E3
TT3135	T3 PPP Analyzer (GUI)	Analysis and decode of ML-PPP and PPP over T3
EE3135	E3 PPP Analyzer (GUI)	Analysis and decode of ML-PPP and PPP over E3
TT3130	T3 Frame Relay Analyzer (GUI)	Analysis and decode of Frame Relay over T3
EE3130	E3 Frame Relay Analyzer (GUI)	Analysis and decode of Frame Relay over E3
TT3160	T3 ATM Analyzer (GUI)	Analysis and decode of ATM cells over T3
TT3200	Channelized T3 License for T1	Direct T1 Analysis / Emulation for up to 28 T1s from T3
TTT001	Soft T1 Analyzer Application	Required and Included
TTTxxx	Channelized Options for T1	Channelized Options for T1 – see T1 E1 Price List
TT3210	Channelized T3 License for E1	Direct E1 Analysis / Emulation for up to 21 E1s from T3
EEE001	Soft E1 Analyzer Application	Required and Included
EEExxx	Channelized Options for E1	Channelized Options for E1 – see T1 E1 Price List
EE3200	Channelized E3 License for E1	Direct E1 Analysis / Emulation for up 16 E1s from E3
EEE001	Soft E1 Analyzer Application	Required and Included
EEExxx	Channelized Options for E1	Channelized Options for E1 – see T1 E1 Price List
TT3600	T3 Basic Client Server Scripted Control Software	Precise & Sequential Control of T3 Analyzer via Client Server, includes framed and unframed BERT – Uses TCP/IP
EE3600	E3 Basic Client Server Scripted Control Software	Precise & Sequential Control of T3 Analyzer via Client Server, includes framed and unframed BERT – Uses TCP/IP
TT3610	T3 Client Server Tx/Rx File	Tx / Rx Files on Unframed or Unchannelized T3
EE3610	E3 Client Server Tx/Rx File	Tx / Rx Files on Unframed or Unchannelized E3
TT3634	T3 Client Server High Throughput HDLC Tx/Rx Test	HDLC Simulation with Impairments
EE3634	E3 Client Server High Throughput HDLC Tx/Rx Test	HDLC Simulation with Impairments
TT3635	T3 Client Server High Throughput PPP Tx/Rx Test	PPP Emulation, requires TT3634
EE3635	E3 Client Server High Throughput PPP Tx/Rx Test	PPP Emulation, requires EE3634
XX617	T3 E3 WCS Client Python Module	Permits Python Client development for T3 E3 platforms

SA004A	T3 E3 Accessory Kit	Four SA007p BNC-to-BNC Cables (75 Ohm), Two SA017B RJ48C to RJ48C Crossover Cables, and Two T-taps with 20 dB Attenuator