GL Communications Inc.
T1 / E1 Analysis Emulation Products Price List

Revised: Oct 13, 2023

Part Number	Description	Notes
TTE001	tScan16 Express Card	16 port T1 E1 Receive Only Card – w/ GL Windows software and optionally Linux API, requires TTE002
TUT001	T1 16 Port License for Basic Software	w/Basic Software for WIN 10
TUE001	E1 16 Port License for Basic Software	w/Basic Software for WIN 10
TUTxxx	Optional Software Apps for T1	Optional Software Applications for T1, 1x per 16 TS, 2x per 32 TS…, see Note 3
TUExxx	Optional Software Apps for E1	Optionxx150al Software Applications for E1, 1x per 16 TS, 2x per 32 TS…, see Note 3
TTE002	16-Port Breakout Box and Cable	Cable and Breakout Box for 16 RJ-48 Interfaces
TTE003	19" Rackmount Kit for Breakout Box	19" Rack Mount Kit for Breakout Box
		If Multiple Cards, then All Must be Licensed with Basic Software License
FTE001	QuadXpress T1 E1 (Main Board)	Quad Port T1 E1 Main Board w/PCIe (x1) Interface – requires ETA00x or EEA00x licenses
ETE001	QuadXpress T1 E1 (Daughter Board)	Quad Port T1 E1 Daughter Board – requires FTE001 Main Board and ETA00x or EEA00x licenses
ETA008	Eight Port License for T1	Eight T1 Ports Licensed
ETA004	Four Port License for T1	Four T1 Ports Licensed
ETA002	Two Port License for T1	Two T1 Ports Licensed
ETA001	T1 Basic Software – required for T1	Basic Software for T1 for WIN 10 – required with T1 licenses
ETAxxx	Optional Software Apps for T1	Optional Software for T1 – most special apps avail.
ETA003	Timeslot Delay Loopback for T1	Driver Implementation for Delay and Channel Loopback (up to 192 timeslots, 0 to 4000 ms/channel)
EEA008	Eight Port License for E1	Eight E1 Ports Licensed
EEA004	Four Port License for E1	Four E1 Ports Licensed
EEA002	Two Port License for E1	Two E1 Ports Licensed
EEA001	E1 Basic Software – required for E1	Basic Software for E1 for WIN 10 – required with E1 licenses
EEAxxx	Optional Software Apps for E1	Optional Software for E1 – most special apps avail.
EEA003	Timeslot Delay Loopback for E1	Driver Implementation for Delay and Channel Loopback (up to 192 timeslots, 0 to 4000 ms/channel)
		If Multiple Main Boards, then All Must be Licensed with Personality License
XTE001	Dual T1 E1 Express Card	Dual T1 E1 Card w/PCIe (x1) Interface – supports pulse mask and jitter functions; requires XUT001 or XUE001 for each card; special apps licensed per system
XUT001	Dual T1 E1 Express Card Basic T1 Software	w/Basic Software for WIN 10
XUE001	Dual T1 E1 Express Card Basic E1 Software	w/Basic Software for WIN 10
		If Multiple Cards, then All Must be Licensed with Basic Software License
PTE001	tProbe Analyzer (Dual Ports)	Portable USB T1 E1 Unit – supports pulse mask and jitter functions; requires PTA001 or PEA001 for each unit; special apps licensed per system
PTA001	T1 Software for tProbe	w/Basic Software for WIN 10
PEA001	E1 Software for tProbe	w/Basic Software for WIN 10
SA000c	High Stability Internal Clock Option	+/- 1 ppm Internal Clock

PTE015	w/ 2Wire FXO and FXS Optional Board	2Wire FXO FXS Board – T1 and E1 – requires xx624 (MAPS FXO FXS)
PTE025	w/ Data Communications Optional Board	Data Communications Board for Interfaces RS-232, RS-449, EIA-530, V.35, and many others – **see separate DataCom price list**
		If Multiple Units, then All Must be Licensed with Basic Software License

The Following are Legacy T1 E1 Analyzer Units (discontinued)

HTE001	HD Universal Dual T1 E1 Card	Universal Dual T1 E1 Card – supports pulse mask and jitter functions; requires HUT001 or HUE001 for each card; special apps licensed per system
HUT001 HUE001	HD Universal Card Basic T1 Software HD Universal Card Basic E1 Software	w/Basic Software for WIN 10 w/Basic Software for WIN 10 ****If Multiple Cards, then All Must be Licensed with Basic Software License****
HDT001 / HDE001 SA000a	High Density Dual T1 or Dual E1 Card High Stability Internal Clock Option	Legacy - High Performance Dual T1 or E1 Card +/-1 ppm Internal Clock
UTE001 UTA001 UEA001 SA000c	Dual Laptop T1 E1 Hardware USB Base Unit Basic Laptop T1 Software Basic Laptop E1 Software High Stability Internal Clock Option	Portable USB Unit - requires UTA001 or UEA001 w/Basic Software for WIN 10 w/Basic Software for WIN 10 +/- 1 ppm Internal Clock ****If Multiple Units, then All Must be Licensed with Basic Software License****

Multi-Interface TDM, Optical, and Packet/IP Rackmount & Probe Test Platforms

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
MT005E	mTOP Probe with i7	Same as MT005 but with Intel Core i7;

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The Following Software are Available for T1 E1 Analyzer Cards and USB Based Analyzer Units		
XX012	Pulse Shape & Jitter Generation / Measurement	Easy, accurate, visual pulse shape and jitter generation / measurement of T1 E1 signals (tProbes, Express platforms); included with basic software
XX010	API Development Software Toolkit (Windows) (Programmers Guide)	Develop applications for T1 or E1 Products for Windows Platforms; Requires C++ dev skills
XX011	API Development Software Toolkit (Linux)	Develop applications for T1 or E1 Products for Linux Platforms; Universal Card Only; Requires C++ dev skills
XX017	Real-Time Multi-Channel Audio Bridge	Streams audio to/from TDM channel(s) from/to sound device(s) in a PC system; supports A-law, u-law, G.726 (16, 24, 32, 40 kbps), G.722; included with basic software
XX018	Multi-Channel BERT Software	Simultaneous and Independent BERT's on many sub-channels, timeslots, and hyperchannels
XX019	Transmit / Receive File Utility Software	Non-GUI Application utility for file transmit and receive over T1 E1; a similar versatile GUI application is also provided
XX020	Record / Playback File Software	File Capture & Transmit over T1 E1; Automated capture/transmit and automated continuous capture; includes STE040 Mux / De Mux Software
XX021	FDL Software for ESF (T1 Only)	Facility Data Link Tx/Rx over ESF links
OLV021	Offline FDL Analysis Software for ESF (T1 Only)	Offline FDL Analysis Software for T1 ESF Links
XX022	DTMF/MF/MF-R2 Detector and Generator Software	Tx/Rx DTMF/MF/MFC-R2 Digits with Detailed Analysis, included with basic software
XX023	E1μ -Law Software or T1 A-law Software	Operation of T1 Systems with A-Law and E1 Systems with μ -Law; included with basic software
XX050	Signaling Bits Recorder Software	Record/Display ABCD Signaling Bits – All Channels, included with basic software
XX024	Real-Time Strip Chart	Real-Time Display of Calls with Synchronized PCM and Signaling Display, included with basic software
XX051	Synchronous Trunk Record Playback	Synchronous Record, Playback, Search, of live T1 E1 traffic on many T1 E1 trunks for mission diagnostics, analysis, retrieval, and storage
XX672	T1 E1 Rx Superframe / Multiframe Streaming over UDP	Permits UDP streaming received E1 multiframes and alarms or T1 extended superframes and alarms
	Call Capture & Analysis Software Options	
XX031	Enhanced T1 / E1 Call Capture/Analysis Software	CCA with traffic based call triggering. Trigger and capture on specific traffic types e.g. fax, specific modems, voice, and tones such as dial, busy, ring back; requires license for XX030

Prices are subject to change

CDR032	Call Data Records	Provides detailed and complete call information for every call including detailed signaling, alarm, and voiceband events. Requires and works with Multiple Call Capture xx031, or PacketScan PKV100, or PPP/ML-PPP xx135 and xx136. Also requires VBA032 and VBA036; requires dongle(s)
	Voice Band Analysis Software Options	
VBA032	Voice Band Analyzer	Analyze voice band parameters e.g. speech level, echo, noise, etc. required for CDR032, requires dongle, PKB070 is included
VBA033	Two-Wire Echo Analysis for VBA	Analysis of echo on two-wire captures, royalty
VBA036	Traffic Analysis for VBA	Analysis of voiceband traffic such as tones, fax, and call progress signals, required for CDR032, ROC
VBA038	Fax Demodulator / Decoder	Demodulates Voiceband Fax Signals (PCM) & then Decodes T.30 Fax Images; Works with captured full duplex and 2wire Fax signals; works with VBA or independently of VBA (on DOS command line), royalty
	Windows Client/Server Software Options	
XX600	Basic Client/Server Scripted Control Software (Included with Basic Software)	Precise & Sequential control of T1 or E1 Lines – Client/Server – Uses TCP/IP, included with basic software
XX605	Dual VF Tx Rx (Only for tProbe), previously called Simplified Audio Client	User Friendly GUI for analog / digital audio Tx/Rx functions – included with basic software, all necessary options are included except xx626
XX606	Pulse Shape & Jitter Measurement	Pulse Shape and Jitter Measurement Data of T1 E1 signals (tProbes only), included with basic software
XX610	w/ Transmit and Receive File capability	Ability to Tx Rx Files directly over T1 or E1 lines – server based; ability to Tx Rx data directly from client;
XX616	T1 E1 WCS Client Python Module	Permits Python client development for T1 E1 platforms
XX620	w/ DTMF/MF/MFC-R2 + answer/place call capability	Tone and Dual Tone detection and generation and CAS signaling capability; included with basic software
XX630	w/ DSP Capability	Permits complex DSP Operations;
XX631	w/ Dynamic DSP Capability	Permits time varying DSP Operations; requires xx630
XX625	w/Channel Associated Signaling Simulator	Special Client simulates all CAS protocols, including wink-start, loop-start, ground start, R1, MFC-R2, etc. (requires xx610, xx620, and xx630)
XX626	w/ SS1/SS4 Signaling Analyzer and Dialer	SS1/SS4 Signaling analysis and dialer for FAA circuits; includes xx610 and xx630
XX629	w/ ISDN Emulation	Emulates call setup and teardown using ISDN protocol – all variants; includes xx640, recommended xx610 and xx620 for traffic generation and reception

Prices are subject to change

XX640	w/ HDLC Encode/Decode and Remote Capture	Real-time reception and transmission of HDLC frames for Remote Protocol Analyzers; Sends and Receives HDLC frames from files;
XX643	w/ MTP2 Emulation	Emulates endpoints using MTP2 protocol stack for building signaling systems for validation and testing;
XX634	High Throughput HDLC Tx/Rx Test	HDLC Simulation with Large # of hyper-channels, channels, and sub-channels, with impairments;
XX635	High Throughput PPP Tx/Rx Test	PPP Emulation, requires xx634
XX636	High Throughput MC ML-PPP Tx/Rx Test	MC ML-PPP and NCP Emulation - including Client GUI for MC ML-PPP Emulation - requires xx634 and xx635
XX655	MultiLink Frame Relay Emulation w/ Tx/Rx Test	Emulates, transmits, and receives multilink frame relay test traffic – requires xx634
XX654	Inverse Multiplexing over ATM (IMA) Protocol Emulation	Emulates Inverse Multiplexing over ATM (IMA) over multiple T1s or E1s; includes GUI,
XX653	ATM-SSCOP Emulation	SSCOP Emulation over ATM
XX646	w/ TRAU Tx/Rx Test	Continuity testing within payload over multiple TRAU Traffic Channels;
XX661	LAPD Server	Emulates endpoints using LAPD protocol stack for building signaling systems for validation and testing
XX662	MAPS LAPD Conformance	LAPD Conformance testing as per ITU / ISO specifications, requires xx634
XX650	w/ SA bits Encode/Decode	HDLC frames on TS0 special bits – E1 only;
XX660	w/ FDL	Send and Receive over ESF – T1 only;
XX665	MAPS TCAP (ANSI) Emulation	Emulates ANSI TCAP Protocol for CNAM, LNP & 800 Calling
XX670	w/ Multi-Channel Rx BERT	Simultaneous Rx BERT on many timeslots and hyperchannels – requires xx610
XX680	w/Traffic Classifier	Realtime traffic classification (specific Modem Type, Fax, Voice, Digits, Digital Data, and more) - requires dongle
XX690	SS7 Protocol Decode Agent	Monitors SS7 Links, Decodes Multiple SS7 Protocol Standards, Filters User Specified Protocol Parameters, Builds CDRs, Streams over TCP/IP to remote site; specialized client required at remote site;
XX691	ISDN Protocol Decode Agent	Monitors ISDN Links, Decodes Multiple ISDN Protocol Standards, Filters User Specified Protocol Parameters, Builds CDRs, Streams over TCP/IP to remote site; specialized client required at remote site;
	MAPS (Message Automation and Protocol Simulation)	*Protocol Simulation & Conformance Tools for TDM*
XX624	MAPS FXO FXS (only for tProbe)	Emulates 2wire FXO / FXS interfaces, requires PTE015; includes xx610 and xx630 Fax emulation supported (Optional - Refer XXXFT0)

XX651	MAPS – CAS Emulation (may require CB)	Special Client simulates all CAS protocols, including wink-start, loop-start, ground start, R1, MFC-R2, etc. (requires xx610, xx620, and xx630); Fax emulation supported (Optional - Refer XXXFT0); also available as a remote client using PKS111 and multi user support with PKS113/PKS114 licensed to a dongle (refer Packet Series Price list) May require Channel Bank (APSCB-24 or APSCB-48) for 2wire emulation
XX652	MAPS – MC MLPPP Conformance Scripts	MC ML-PPP Protocol Conformance Scripts; includes xx634
XX692	MAPS – GSM "A" Interface Emulation	GSM "A" Interface Emulation with detailed control, includes xx643; requires xx610 and xx620 for traffic generation; Fax emulation supported (Optional - Refer XXXFT0)
XX693	MAPS – GSM "Abis" Interface Emulation	GSM "Abis" Interface Emulation with detailed control, includes xx661 and requires xx646 for TRAU Tx Rx
XX697	MAPS – BSC to SGSN Emulation over E1	BSC to SGSN Emulation over E1 (at BSC),
XX698	MAPS – SGSN to BSC Emulation over E1	SGSN to BSC Emulation over E1 (at SGSN)
XX648	MAPS – ISDN Emulation	ISDN Protocol Emulation with detailed control, includes xx661 for LAPD Emulation, requires xx610 and xx620 for traffic generation; Fax emulation supported (Optional - Refer XXXFT0)
XX642	MAPS – ISDN Conformance	ISDN Protocol Conformance Test Scripts, includes xx661
XX649	MAPS – SS7 Emulation	SS7 Protocol Emulation with detailed control, includes xx643, requires xx610 and xx620 for traffic generation; Fax emulation supported (Optional - Refer XXXFT0); also available as a remote client with dongle
XX656	MAPS – INAP Emulation	ITU SS7 INAP CS1 CS2 Emulation
XX694	MAPS MAP Emulation	MAP Protocol Support for interfaces B,C,D, E, F, G, and H; includes xx643;
XX699	MAPS – ANSI MAP Emulation	IS41 Emulation on B, C, E, F, H, Q, and N interfaces; includes xx643;
XX647	MAPS – SS7 / ISUP Conformance Scripts	SS7 / ISUP Protocol Conformance Test Scripts; includes xx643;
XX695	MAPS – SS7 BICC Emulation	Bearer Independent Call Control (BICC) Emulation
XX682	MAPS – IUP Emulator	BT (UK) IUP Protocol Emulation, includes xx643; xx610 and xx620 required for traffic generation; Fax emulation supported (Optional - Refer XXXFT0);
XX696	MAPS – SS7 CAP Emulation (CAMEL App Part)	Customized Application for the Mobile network Enhanced Logic – CAMEL Application Part (CAP); includes xx643
XX683	MAPS - GPRS Gb Interface Emulator	Gb Interface emulation over Frame relay. Simulates BSC & SGSN; Requires ETH103 for Traffic
	Echo Canceller Testing Software Options	
XX062	Echo Path Delay / Loss Simulation Software	Simulate Echo Path Delay and Loss w/GLCView , includes PKB070

XX063	Echo Path Delay / Loss Measurement Software	Measures Echo Path Delay and Loss
XX065	G.168 Test Suite for T1 & E1 Echo Cancellers (Manual Testing Software and Procedures)	Specialized procedures, test software, and test files for manual Echo Canceller Testing per CCITT G.168. w/ GLC View, Includes xx020, xx062, xx063, xx066, and PKB070
XX066	Digital Echo Canceller	A multi-channel digital echo canceller; view impulse response, ERL, delay, etc.
EMU037	Echo Measurement Utility	Analyzes echo return loss (ERL) and echo path delay (EPD) for 2Wire Analog, VoIP, T1 E1, and Mobile networks; PKB070 is included
PKB070	Audio Processing Utility	Adds noise, creates line or acoustic echo, analyzes speech level and other useful functions; included with XX062, XX065, EMU037, PKB105, PKB081, PKB067, PKB080, and VBA032
XX067	Automated Echo Canceller Testing	Fully Automated Echo Canceller Testing per G.168 with optional Voice Quality Testing Software – includes xx019 Tx/Rx Utility Software or xx610, and xx630 w/dongle
PKB080	Automated Echo Canceller Testing TDM-VoIP	See Packet Products Price List
PKB081	Automated **Acoustic** Echo Canceller Compliance Testing (Partial Tests)	Fully Automated AEC Compliance Testing per G.167 and P.340 for combined TDM –TDM and TDM-VoIP Interfaces, includes xx610, xx630, xx631; may require PKB100, PKB110, and Level Adjustment Unit ; xx062 and xx020 recommended
AEC001	AutoECTest Viewer	Offline viewing of AutoECTest Files / Results
XX068	Semi-Automated and Scripted Echo Canceller Testing Suite w/ C++ Client	Uses Windows Client Server Software (includes xx610, xx630) with Customizable Scripts for EC G.168 Testing; w/dongle - available with C++ Client
	Protocol Analyzers and Emulators	
XX089	Protocol Identifier	Identifies protocols within T1 E1 whether the bandwidth occupied is full, fractional, timeslot, or sub-timeslot
XX090	T1 or E1 Real-Time HDLC Decode / Store / Impair Software	Decode, Capture, Impair HDLC frames from DSO timeslots
OLV090	Offline/ Remote HDLC Analyzer	Decode and Analyze pre-captured HDLC files Remote Protocol Analyzer (requires xx640) , Note 2
XX092	CAS (Channel Associated Signaling) Analyzer	Channel Associated Signaling Analyzer with PDA – includes xx610 and xx630; performs R1, MFC-R2, and other CAS Signaling Analysis
XX093	Call Capture Option for CAS Protocol	Call Capture Option for CAS Protocol with PDA – requires xx092;
OLV092	Offline CAS Analyzer	Offline CAS Analyzer; optional with PKV170 Network Surveillance Base Software for CAS Decode / Analysis;
XX095	E1 Real-Time SA Bit HDLC Analysis	Tx / Capture HDLC frames from SA bits TS0
OLV095	Offline SA Bit HDLC Analyzer	Decode/Analyze pre-captured SA Bit HDLC files, Note 2

XX100	T1 or E1 Real-Time ISDN Protocol Analyzer	Real-Time Monitoring of ISDN D-Channel with PDA
XX101	Call Capture Option for ISDN Protocol	Call Capture Option for ISDN Protocol with PDA – requires xx100;
OLV100	Offline / Remote ISDN Analyzer	Decode / Analyze pre-captured ISDN files; optional with PKV170 Network Surveillance Base Software for ISDN Decode / Analysis; Remote Protocol Analyzer (requires xx640), Note 2
XX102	T1 Real-Time DDS Protocol Analyzer	Real-Time Monitoring / Capture of DDS Channels within T1 Lines – supports 9.6, 4.8, 2.4 kbps channels in DS0-A and DS0-B formats
XX105	T1 or E1 Real-Time ISDN Protocol Emulator	Place / Answer calls using all flavors of ISDN
XX110	E1 Real-Time V5.x Protocol Analyzer	Real-Time Monitoring of V5.X Protocol with PDA
XX111	Call Capture Option for V5.x Protocol	Call Capture Option for V5.x Protocol with PDA – requires xx110;
OLV110	Offline / Remote V5.x Analyzer	Decode / Analyze pre-captured V5.X files Remote Protocol Analyzer (requires xx640), Note 2
XX120	T1 or E1 Real-Time SS7 Protocol Analyzer	SS7 Protocol Analysis with PDA (MTP, ISUP, TCAP, SCCP, INAP, IS-41, TUP, CAMEL, CAP)
XX121	Call Capture Option for SS7 Protocol	Call Capture Option for SS7 Protocol with PDA – requires xx120;
OLV120	Offline / Remote SS7 Analyzer	Decode / Analyze pre-captured SS7 files; optional with PKV170 Network Surveillance Base Software for SS7 Decode / Analysis; Remote Protocol Analyzer (requires xx640), Note 2
XX130	T1 or E1 Real-Time Frame Relay Analyzer	Real-Time Frame Relay Analysis
OLV130	Offline / Remote Frame Relay Analyzer	Decode / Analyze pre-captured Frame Relay files Remote Protocol Analyzer (requires xx640), Note 2
XX135	PPP and ML-PPP Analyzer	Analysis and Decode of ML-PPP and PPP protocols and other higher layer IP protocols
XX136	PPP and ML-PPP Packet Analysis	Realtime Packet Voice, Video, and Fax Analysis – includes SIGTRAN, PacketScan functions - but not specialized codecs; includes xx135, ROT
OLV135	Offline PPP and ML-PPP Analyzer	Decode / Analyze pre-captured ML-PPP and PPP files, Note 2
OLV136	Offline PPP and ML-PPP Packet Analysis	Offline Packet Voice, Video, and Fax Analysis - includes SIGTRAN, PacketScan functions - but not specialized codecs, royalty to Telchemy
XX140	T1 or E1 Real-Time GR303 Protocol Analyzer	GR303 Analysis (TMC, EOC, CSC)
OLV140	Offline / Remote GR303 Analyzer	Decode / Analyze pre-captured GR303 files, Remote Protocol Analyzer (requires xx640), Note 2
XX142	CDMA2000 Protocol Analyzer	Provides decode of A interfaces in CDMA2000 networks
OLV142	Offline CDMA2000 Protocol Analyzer	Decode / Analyze pre-captured CDMA2000 files, Note 2
XX150	T1 E1 Real-Time GSM Protocol Analyzer	GSM Protocol Analysis of the A Interface, the A-bis Interface, and the Gs, Ls, and Gb Interfaces. A-bis Interface decodes Radio Link Signaling (RSL) and voice bearers, but not the proprietary O&M interfaces.

XX151	GSM Motorola Mobis Option	To support the decode of Motorola specific A-bis implementation; requires xx150 **(Proprietary decodes limited to few customers only)**
OLV150	Offline GSM Analyzer	Decode/Analyze pre-captured GSM files; optional with PKV170 Network Surveillance Base Software for GSM Decode / Analysis; Note 2
OLV151	GSM Motorola Mobis Decode Option	with Motorola Mobis decodes, requires OLV150 **(Proprietary decodes limited to few customers only)**
XX153	T1 E1 Real-Time TRAU Protocol Analyzer TRAU Playback TRAU Toolbox	Decode/analyse and extract compressed voice traffic between BTS and BSC, w/ PDA for Voiceband Analysis TRAU Playback of pre captured TRAU files over T1/E1 timeslots TRAU Toolbox – Emulate voice over TRAU
OLV153	Offline TRAU Protocol Analyzer	Decode / Analyze pre-captured files, required with PKV170 Network Surveillance Base Software for TRAU Decode / Analysis; Note 2
XX155 OLV155	T1 or E1 Real-Time GPRS Protocol Analyzer Offline GPRS Analyzer	Gn-Interface & Gb-Interface Decode/Analyze pre-captured GPRS files, Note 2
XX160 OLV160	T1 or E1 Real-Time ATM Analyzer Offline ATM Analyzer	ATM Analysis on T1 / E1 lines Decode/Analyze pre-captured ATM files, Note 2
XX162	ATM BERT	ATM Bit Error Rate Testing over virtual circuits (not supported by Octal Cards)
XX165 OLV165	UMTS Analyzer Offline UMTS Analyzer	Analysis / Decode of broadband wireless protocols Decode/Analyze pre-captured UMTS files, Note 2
	Network Monitoring Software Options	
	Refer NMS section under Packet Series Price List	
	DCME Related Software Options	
DC007	DCME Test & Analysis Software w/ Desktop PC	See Separate Product Literature
DC008	DCME Test & Analysis Software w/ Portable PC	See Separate Product Literature
	Fax & Modem Analysis & Emulation Software Options	
XXXFT0	Fax Emulation	Fax Emulation for T1 E1 and Analog Interfaces (FXO and FXS), requires one of the licenses below:
XXXFT2 XXXFT3 XXXFT4 XXXFT5 XXXFT6	Fax Port Licenses Fax Port Licenses Fax Port Licenses Fax Port Licenses Fax Port Licenses	2 Fax ports, 8 Fax ports, 30 Fax ports, 60 Fax ports, 120 Fax ports,

FXT001 FXT002	GL Insight - Single Fax Analysis – TDM GL Insight - Single Fax Analysis – IP	Offline fax protocol and image analysis of captured PCM files w/dongle Offline modem protocol and data analysis of captured PCM files w/dongle
MDT001 MDT002	GL Insight - Single Modem Analysis – TDM GL Insight - Single Modem Analysis - IP	Demodulates Voiceband Fax Signals (PCM) & then Decodes T.30 Fax Images; Works with captured full duplex and 2wire Fax signals; works with VBA or independently of VBA (on DOS command line), royalty
VBA038	Fax Demodulator / Decoder	Used for capturing Audio files from RJ11 connections for GL Insight Fax / Modem Analysis; requires Dual UTA or USB T1 E1 Analyzer; includes FXO RJ11 Hardware Tap
VQT035 PKV104	FXO RJ11 Hardware Tap / 2-Wire Capture Software FaxDDT38	Decodes Fax Images from PCAP files; Works with PacketScan™ or independently of PacketScan™ (on DOS Command Line); Also works with PacketScan™ Offline,
	Miscellaneous Software Options	
STE040	Mux / Demux Software	Processing Software for T1/E1 Tx / Rx Files – requires dongle; included with xx020 Record / Playback Software
STE050	Sample Traffic Files	Voice, fax, data, and tone testing of networks; included with basic software
	Analog Phone Simulator (APS)	
	2W APS – FXO or FXS or Combination	**Note**: Simulates a bank of XX phones; XX FXO ports assumed, FXS available; costs volatile, check before quoting; customer may require RJ11 cables, T1 crossover cables, requires additional MAPS CAS Software, Dual Express/Quad/Octal Cards, and more...
APSCB-24-2W	24-Port 2W Analog Phone Simulator (APS), or Central Office Switch Simulator	
APSCB-48-2W	48-Port 2W Analog Phone Simulator (APS), or Central Office Switch Simulator	
APSCB-72-2W	72-Port 2W Analog Phone Simulator (APS), or Central Office Switch Simulator	
APSCB-96-2W	96-Port 2W Analog Phone Simulator (APS), or Central Office Switch Simulator	
APSCB-120-2W	120-Port 2W Analog Phone Simulator (APS), or Central Office Switch Simulator	
	4W APS – FXO or FXS or Combination	**Note**: Simulates a bank of XX 4W or 4W E&M ports; costs volatile, check before quoting; customer may require special RJ45 cables for 4W E&M and T1 crossover cables; requires additional MAPS CAS Software, Dual Express/Quad/Octal Cards, and more...
APSCB-24-4W	24-Port 4W Analog Phone Simulator (APS), or Central Office Switch Simulator	
APSCB-48-4W	48-Port 4W Analog Phone Simulator (APS), or Central Office Switch Simulator	

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APSCB-72-4W	72-Port 4W Analog Phone Simulator (APS), or Central Office Switch Simulator	
APSCB-96-4W	96-Port 4W Analog Phone Simulator (APS), or Central Office Switch Simulator	
	Repeaters, Switches, & Wireless Equipment	
MPT00	T1 Multiport Repeater	1:12 T1 Repetition
MPE00	E1 Multiport Repeater	1:12 E1 Repetition
DPT00	Dual T1 Multiport Repeater	2X 1:4 T1 Repetition
DPE00	Dual E1 Multiport Repeater	2X 1:4 E1 Repetition
SWT001	T1 / E1 / J1 Monitor / Intrusive Switch	8 Port Monitor / Intrusive Failsafe Switch
SME063 SME063d	STM 1 Multiplexer / Demultiplexer w/ 1:1 Fiber Protection	Multiplexes and demultiplexes 63 E1s into / from an STM 1; optional 1:1 Fiber Protection
SME063y	Special Dual E1 Y Cable	Dual E1 Y Cable; Pinout E1#1, 8-2, 7-1, 6-5, 5-4, E1#2, 4-2, 3-1, 2-5, 1-4 – At least one required, up to 32 may be required (4 additional cables will be provided if 32 cables are ordered); not included with SME063 or SME063d
SME063sc	Duplex SC to SC Single Mode 1310 nm	Duplex SC to SC Single Mode 1310 nm – 2 meters – At least one required
BTS001	Small BTS GSM Cell	BTS with Abis over IP; up to 8 Tx/Rx channels
BTS010	w/ GSM – R Option	Optional GSM – R Features
BSC010	BSC / MSC GSM – R Option	Optional GSM – R Features for BSC and MSC

Note 1: Volume Discount of 15% Available for single purchases of 11 or more Cards or Analyzer units

Note 2: All Offline and Remote Analyzers require a dongle and are independent of hardware or T1 E1 type

Note 3: Example – 16 TS of SS7 signaling links = 1 X "xx120", 32 TS of SS7 signaling links = 2 X "xx120", etc.