SoftPlot
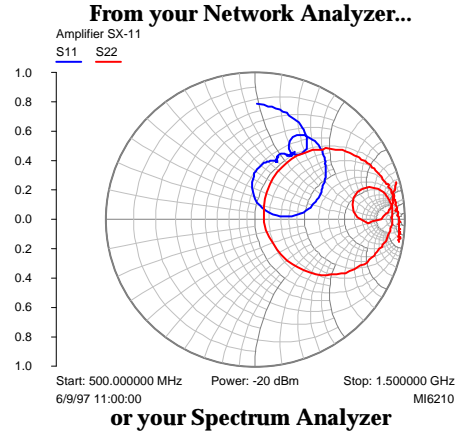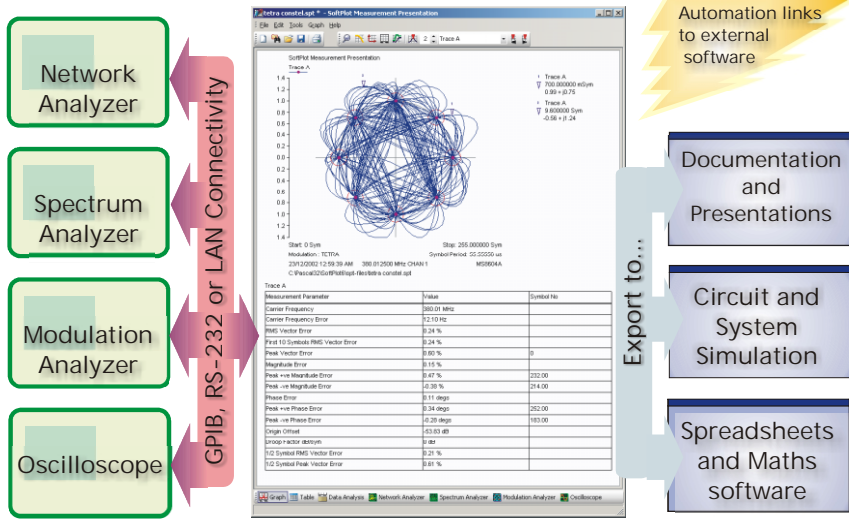
Measurement Presentation Software

One Software Package to manage all your Instrument Measurements and Test Results

Network Analyzer

Spectrum Analyzer

Modulation Analyzer

Oscilloscope

GPIB, RS-232 or LAN Connectivity

Automation links to external software

Export to...

Documentation and Presentations

Circuit and System Simulation

Spreadsheets and Maths software

From your Network Analyzer...

Amplifier SX-11
S11   S22

Start: 500.000000 MHz Power: -20 dBm Stop: 1.500000 GHz
6/9/97 11:00:00 MI6210

or your Spectrum Analyzer

Power Amplifier at 3.0V, 140mA, spectral spreading test

Start: 1.918500 GHz Stop: 1.921500 GHz
Res BW: 10 kHz Vid BW: 300 Hz Sweep: 3.00 s
20/04/98 12:09:28 HP8562A

-21.5dBm	-21dBm	-20.5dBm	-22dBm	-21.5dBm	-21dBm
-20.5dBm	-20dBm	-19.5dBm	-19.0 dBm	-18.5dBm	
-18dBm	-17.5dBm	-17.0dBm	-16.5dBm		

From your Oscilloscope...

Levelling loop voltages and timing
TXONPA PAOUT Vcontrol PA Drain Integ Init Detector
Verror

01/05/96 5:30:03 2432A

or your Modulation Analyzer

SoftPlot Measurement Presentation
Trace A

Start: 0 s Stop: 30.247154 ms
Modulation : Custom IQ Symbol Period: 3.69231 us
03/07/2002 16:55:38 esg arb EDGE.spt E4437B

SoftPlot Measurement Presentation software produces professional graphs and data files from test equipment at the click of a button. No programming effort is required. Simply hook up your **Network Analyzer, Spectrum Analyzer, Oscilloscope or Modulation Analyzer** to your PC using GPIB, RS-232 or LAN, and you have instant access to all the trace data you need.

Presentation Quality Graphics

SoftPlot gives you sharp, scaleable, vector - based graphics to paste into your document or presentation. This is because trace data from the instrument is processed into the required display format. Choose from a wide range of graph types, including log and linear cartesian, modulation, antenna, polar and Smith charts. Apply markers and limit lines to clarify the information in your measurement. Enter measurement notes below the graph to document your test set-up, or to record the changes made in a family of traces.

SoftPlot exports graphics as a Windows Metafile or Bitmap (*.WMF, *.BMP, *.JPG, *.TIF), but most important is the ability to embed or link your measurements using OLE (Object Linking and Embedding). This retains access to the original measurement data as well as providing graphics for your document.

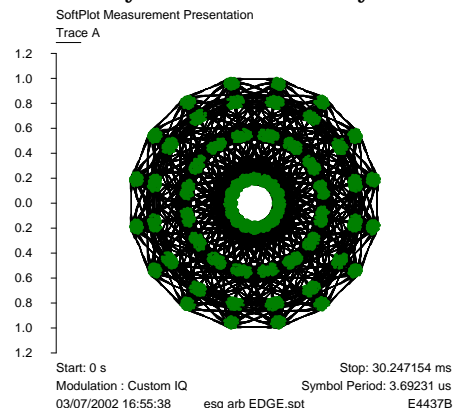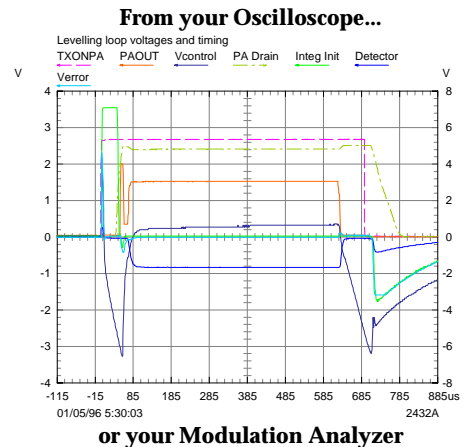### Full Support for Industry Standard CAD Software

Bidirectional file exchange is supported for a wide range of circuit and system simulators, including Microwave Office (^{TM} AWR) and ADS (^{TM} Agilent). Convert manufacturers' data to match your simulator, as well as creating files from your own measurements. S-Parameter data can be read and written in touchstone format. Read / write capability is also provided for comma-delimited (CSV) and tab-delimited (TXT and PRN) text files, allowing exchange with spreadsheets, word processors and mathematical tools such as MathCad and MatLab.

Automation Links

SoftPlot has a COM and a DDE server built into it, which means that you can control it from other programming environments to perform automated testing. Examples are provided for Word and Excel macros, VEE, LabView and MatLab.

New in SoftPlot Version 8.0:

Customisable toolbars; RTF Measurement Notes pad; Support for Prologix GPIB interfaces; 1/dt marker pairs for DSO measurements; new and updated instrument drivers; extended COM/DDE interface; and more...

Capture your measurements with SoftPlot and release their information potential.

Instruments Supported

Network Analyzers	**Advantest** R3753H, R3764/65/66/67H, R3765/67G series, R3860A, R3770, R3768 **Agilent** E5061/62/70/71 ENA, E835XA/B, E836XA/B, N52XXA PNA, PNA-X Series, FieldFox (N9912A..N9938A) **Anritsu Wiltron** 360, 371xx/372xx/373xx, MS3401A/B, MS462XX, MS4630B, VectorStar MS4640A, Site Master SxxxA/B series, 54xxA/541xxA/56100A series scalar analyzers **Hewlett - Packard** 3577A, 3589A, 8510, 8711-14B/C, 8751/52/53, 8720 series, E5100A/B; 4195, 4395A, 4396A/B Net/Spect Analyzer 4191, 4192A, 4194A, 4284A, 4291A/B, 4294A, E4991 8756, 8757 Scalar Analyzer, 8903A/B Audio Analyzer 4145A/B, 4155/56 Semiconductor Param. Analyzers 4280 Capacitance Meter; 4352B VCO / PLL Signal Analyzer **Hioki** IM3570 **Marconi Instruments / IFR / Aeroflex** 6210, 6200, 6800 MW Test Sets **Rohde & Schwarz** ZVA/ZVB/ZVT series, ZVH, ZVL, ZVR/ZVC/ZVM/ZVK, ZNB, ZNC **Wayne Kerr** 6500B Impedance Analyzer **Wiltron** 560A / 6600 Scalar Analyzer system
Spectrum Analyzers	**Advantest** R3131/32/62, R3261/3361, R3265/71, R3267/73, R3463/65, R3671/81, U3641, U3751, U3771, U3772, U4941, R4131 series, TR4135 **Agilent / HP** CSA, E44XXA/B ESA-E, ESA-L, PSA, E7400, EXA, MXA, PXA, L1500A; 8960 Wireless Comms Test Set (GSM), 89600, E5052A, N9340, N9912A-N9938A **Ando** AQ6317 Optical Spectrum Analyzer **Anritsu** MS2602, MS2650/60, MS2665C, MS2667C, MS2668C series, MS2702, MS2802, MS2830, MS612A, MS2711A/B/D, MS2721A/B, MT8220, MT8801B, MS9030A (MV02) Optical Spectrum Analyzer **Hewlett - Packard** 3582, 3585, 3588/89A, 8560/1/2/3/4/5, 8566A/B, 8568A/B, 8569B, 8590 series, 70000 series, N9340 Series, 3561A, 3562A, 35660, 35665, 35670A; 4195, 4395A, 4396A/B 8542E / 8546A, HP8594EM EMI Receiver; 8920/22 Comms Test Set **IFR/Aeroflex** AN940, 2394, 2395, 2397, 2398, 2399/A/B/C, 3250, 3280 **LG Precision** SA-9270 / SA-7270 **Marconi Instruments** 2380 and 2390 series 2945 series (spectrum only), 2965 series (graphical displays only) **Rohde & Schwarz** ESMI, ESCI, ESCS, ESIB, ESU, FSA/B/M, FSE, FSG, FSH (opt K1 or K40), FSIQ, FSL, ZVL, FSP, FSQ, FSU, FSUP, FSV, FSW CMS50 series (spectrum analyzer display only) CMD55/65, CMU200 (3GPP FDD/GSM/EDGE/Btooth), CMU300 (GSM/EDGE) **Scientific Atlanta** SD385 **Tektronix** 2711/2712, 2714/2715, 492P/AP/BP, 494P, RSA3303A/08A, RSA6106A/RSA6114A **Willtek/Aeroflex** 9100 Series
Modulation Analyzers	**Advantest** R3264/3267/3273 + Opt62 3GPP, R3671/81 **Agilent / HP** 89400, 8981B, 89600, E4406, ESA, EXA, MXA, PSA, PXA ESG-B Option UND, ESG-C, PSG, MXG N5182A ARB Memory **Anritsu** MS8604A, MS8608A/MS8609A Transmitter Tester, MT8820A, MT8852A, MS2690/91/92A, MS2830A **Hewlett Packard** 53310 modulation domain analyzer 5372A Freq / Time Analyzer, 71500/70820A MTA, 5361B Counter **IFR** 2310 Tetra modulation analyzer, 2319E RF Digitiser **Keithley** 2910 Vector Signal Generator (Opt 2910-ARB) **Pendulum** CNT-80 / 81 / 85 Counter **Rohde & Schwarz** AMIQ ARB, FSE with option B7, FSIQ FSIQ-B70, FSP-B70, FSG/FSP/FSU/FSQ/FSV/FSW IQ Capture FSIQ-K72 WCDMA Analysis, FS-K70, FS-K40 options **Tektronix** WCA230A/280A, AWG400/500/600/710, AWG2021, AFG3000, AWG5000/7000/B series Arb, RSA6106A/RSA6114A **Thurlby-Thandar** TGA12100 Arb **Wandel & Goltermann** PCM-4 PCM channel test set
Oscilloscopes	**Agilent / HP** 3000, DSO5000/MSO6000/DSO7000/MSO7000, MSO8000 DSO9000A, MSO9000A, 54111/12D, 54120 Series, 54200, 54501/02/ 03A, 54520/40C, 54600/1/2/3, 54610/15/16, 54621/22/24A/D, 54641/2/4A/D, 54645A/D, 54750, 548XXA, 80000, 83480, 90000 **Fluke/Philips** PM3350/55/65/75; PM338XA/PM339XA **LeCroy** LC300/LC500/9300, WaveRunner/Master/Pro, SDA, DDA **Rigol** DS6000 series **Rohde & Schwarz** RTO **Tektronix** 11000 / DSA60x / CSA Digitiser, TDS 200 – 800/ 1000/ 2000/3000/4000/5000/8000, DPO3000, DPO7000, DPO70000, DSA70000, 2220/30/32, 2432/40, 7D20, 7854 **Yokogawa** DL1520/DL1540, DL1740 / DL7100 / DL7200, DL750 / DL750P / DL850 / DL850V Series
Others	**Agilent** EPM-P Series Power Meter, 8990A/8991A **Boonton** 4400 / 4500 Peak Power Meter **Agilent** N8972/3/4/5A NFA Series Noise Figure Meter **Hewlett Packard** HP8970A/B Noise Figure Meter HP 8990/8991 Peak Power Analyzer HP 85719A Noise Figure Card in HP859XE HP 85671A Phase Noise Card in HP8560/90

The range of supported instruments is regularly enhanced - ask about support for instruments you need if you cannot find them here.

Hardware Requirements

Minimum system requirement	Pentium 200MHz PC, 64MB RAM, 200MB hard disk space Microsoft Windows 7, XP, Vista, 2000, NT4, ME, or 98
GPIB card Note SoftPlot can also use **RS-232** and **LAN**	**National Instruments**, type PC-IIA, AT-GPIB/TNT, PCI-GPIB, PCMCIA-GPIB, GPIB-USB-A/B/HS **Agilent / HP** 82335, 82340, 82341, 82350, 82357A/B **MCC (ComputerBoards Inc.)**, type ISA-GPIB, ISA-GPIB/LC, ISA-GPIB-PC2A, PCI-GPIB, PCM-GPIB. **IC Select inc**. 488-USB, 488-USB2 **ines** GPIB-PCMCIA, GPIB-PCI card **Prologix** GPIB-USB 4.2, GPIB-Ethernet 1.2 or higher

Capability Summary

Supports	Network Analyzers, Spectrum Analyzers, Modulation Analyzers, Oscilloscopes, Arbitrary waveform generators
Chart Types	Cartesian- linear and log, Polar, Smith, Admittance Smith, Eye Diagram, Vector Modulation (Cartesian, polar, rotated), Constellation, Nichols, Antenna Polar
Graph Data Formats	Linear magn, Log magn, re/im, VSWR, Phase, Group Delay, Unwrapped Phase
Data Storage	16 complex trace stores, arbitrary number of points (limited by available system memory). Each store has a trace label, trace notes and data analysis table.
Markers	Up to 20 markers and/or delta markers
Limit lines	Up to 50 arbitrary line segments for limits testing
Scaling	Up to 2 independent vertical scales
Numerical	Electrical delay, Smoothing, Magnitude/ Phase offset, Magnitude slope
Trace maths	+, -, /, **x**, Log, Magn, Phase, Square-root, Anti-Log, Group Delay, Derivative, Mismatch loss factor, Rollet''s Stability Factor K, Stability Factor B, Edwards-Sinsky Stability Mu, Max Unilateral power gain, Max Available Gain, Max Stable Gain, Z0 Renormalisation, No. of Bit Differences, Max Value, Min Value, Standard 3 or 4 port to Mixed Mode S-Parameters, Timebase Delay, Smoothing, Wraparound Smoothing, Complex Reflection to VSWR, Complex Refl to impedance, dB Reflection to VSWR, mW to dBm, dBm to mW, T-Check quotient, Sorting
Data Editing	Edit, cut, copy and paste traces in the Table view
Measurement Templates	Copy attributes from previous measurements such as limits, markers, annotation, graticule
Integrated Interfaces:	OLE2 Linking and Embedding (for Word, PowerPoint, etc) :- double - click in the document to begin editing. COM (ActiveX Automation) and DDE Server (for automated operation with test system software)
File Formats: (all bidirectional except graphics and MAT)	SoftPlot (*.SPT), MIPlot (*.MPT), Agilent EEsof, AWR MW Office, Eagleware GENESYS (*.S1P.. S4P), Ansoft Super Compact (*.FLP), Spreadsheet (*.CSV), Tab Delimited (*.TXT), MathCad (*.PRN), Citifile (*.F??,D??), BMP, TIFF, JPEG, WMF, EMF, PNG, MatLab (*.MAT)

Ordering Information and Enquiries...

Further information and a free evaluation edition of **SoftPlot** is available for download from our Web site. Alternatively write, e-mail, call or fax us.

Ordering Options :	Purchase online at **www.softplot.com**. Or request a quotation if you prefer to use an official company purchase order. Site licences are also available and quantity discounts may apply.
Delivery :	Within 10 working days
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