Agilent 81200

The 81200 Data Generator/ Analyzer Platform

Configuration Guide
Release 2.1

Simplify your verification and characterization process

Agilent Technologies
Innovating the HP Way

The Agilent Technologies 81200 data generator/analyzer platform

The Agilent 81200 is a modular platform consisting of front-ends, modules, mainframes and user interfaces, which can be tailored to your specific test needs. This guide aims to help you choose the right components. In this context, two different fundamental possibilities in configuring the system must be considered. These depend on how you want to integrate the Agilent 81200 into your test environment:

a) Using the 81200 as a "proprietary system" means that the 81200 will not be combined with other VXI modules in a standard VXI system. It can however, be controlled by a LAN or a GPIB interface. If a "proprietary system" is desired, follow steps 1-3, 4a and 5 to configure your system (figure 1).

b) If Agilent 81200 modules are combined with other VXI modules then an "open VXI system" (the standard VXI system), is achieved. For this configuration, please follow steps 1-3, 4b and 5 (figure 1).

For information on upgrading an existing Agilent 81200, please refer to page 8.

On each page you'll find tables where you can enter your choice as a reminder for ordering.

STEP 1: Selecting the number of channels required

Figure 2 shows that three different generator front-ends and four different analyzer front-ends are available. To select the correct front-end, the following should be checked:

- speed
- data format
- levels
- memory depth

Please note that some of the lower speed front-ends have two outputs or two inputs and support a maximum memory depth of 512 Kbit per channel, not 1024 Kbit. SMA cables are not included.

For more details, consult the *Agilent 81200 Data Generator/Analyzer Platform,* data sheet, p/n 5965-3415E.

STEP 2: Choosing the modules

The generator and analyzer front-ends can be fitted together as follows:

- Generator front-ends can be fitted (any mix) in the Agilent E4831A Clock and Data Generator Module or the Agilent E4841A Data Generator/Analyzer Module.
- Analyzer front-ends only fit into the Agilent E4841A module. Any mix of analyzer and generator front-ends is acceptable, provided that the same sequence is needed for the generator and analyzer.
- At least one clock module is essential; either an Agilent E4805A Central Clock Module or the Agilent E4831 Clock & Data Generator Module. These modules can drive up to eleven or six Agilent E4841A modules respectively.
- The sequence of segments and the segment types (pattern, pause, PRBS/PRWS) is the same for all the channels within one module. For example, if you need to set up PRBS and control channels, make sure you run PRBS from one module and the control signals from another module.

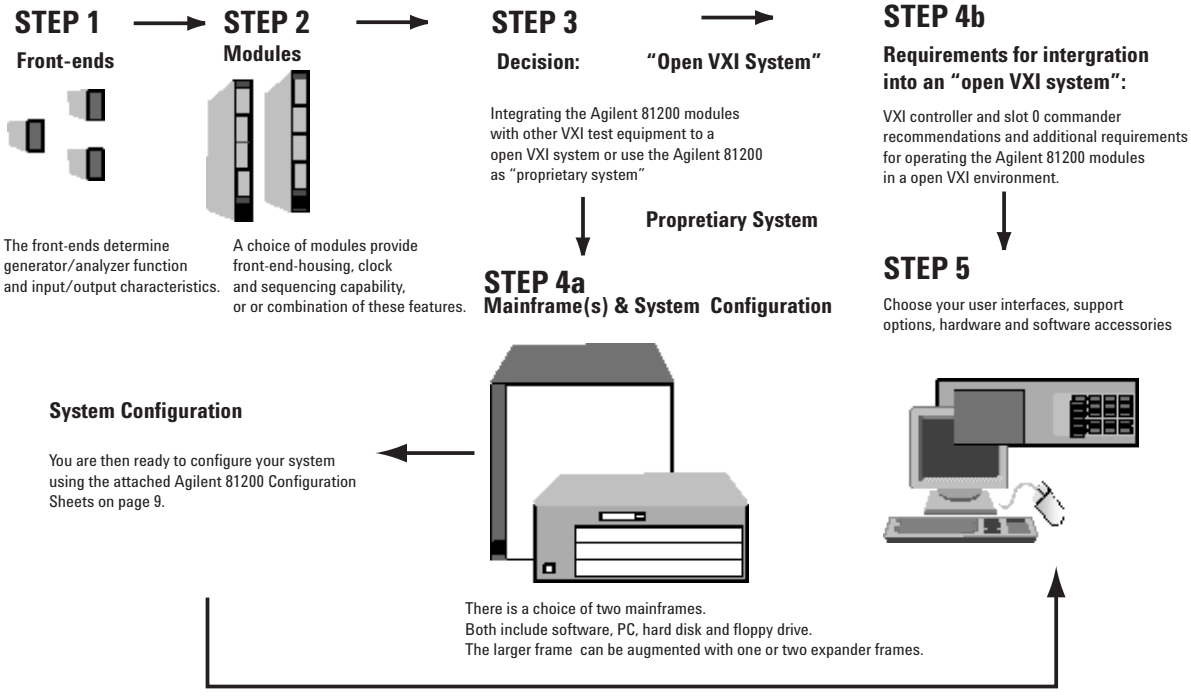

Figure 1: Configuring an Agilent 81200 Data Generator/Analyzer Platform

	Product Description	Model Number	Quantity
Generator front-ends	Generator front-ends 660MHz, RZ/NRZ, 3.5 Vpp, variable transition times SMA (f).	Agilent E4838A	
	Generator front-end 330 MHz, RZ/NRZ, variable transition times SMA (f).	Agilent E4842A	
	Generator front-end 660 MHz, RZ/NRZ, single channel, 2.5 Vpp SMA (f).	Agilent E4843A	
	Dual generator front-end 200 Mbit/s, NRZ, 3.5 VPP SMA (f).	Agilent E4846A	
Analyzer front-ends	Differential analyzer front-end 660 Msa/s, 1 GHz bandwidth, 50Ω SMA (f).	Agilent E4837A	
	Single analyzer front-end 660 Msa/s, 1 GHz bandwidth, 50Ω SMA (f).	Agilent E4844A	
	Dual analyzer front-end 330 Msa/s, 1 GHz bandwidth, 50Ω SMA (f).	Agilent E4845A	
	High impedance dual analyzer front-end 330 Msa/s, 350 MHz bandwidth, 50Ω SMA (f).	Agilent E4847A	
Modules	660 MHz data generator/analyzer module – holds four front-ends, any mix	Agilent E4841A	
	660 MHz clock and data generator module – holds two generator front-ends, any mix. Clocks up to six Agilent E4841A modules.	Agilent E4831A	
	660 MHz central clock module, which clocks up to eleven Agilent E4841A modules and up to two Agilent E4805s.	Agilent E4805A	
	Required in all systems that include analyzer front-ends, and for all systems with seven or more Agilent E4841As.	Agilent E4805A	
	8-line trigger input for TTL signals. When branching on external events (hardware signals) other than VXI-ECL trigger lines or compare errors is required.	Agilent E4805A Opt 002	
	Deskewprobe, includes Agilent 1144A 880 MHz active probe and a BNC (f) to SMA (m) adapter (part number 1250-1200).	Agilent E4805A Opt 003	

Which clock module?

The Agilent E4831A Clock & Data Generator Module can be an economic way of building pulse or data generators as it includes slots for two front-ends. Please remember that the Agilent E4831A can only be used for generator channels. For applications needing many channels, analyzer channels or more than two looping levels, use the Agilent E4805A Central Clock Module.

STEP 3: Decision - VXI integration or not

If you want to combine the Agilent 81200 modules with other VXI modules to achieve an "open VXI system," then go to STEP 4b.

If you want to use the Agilent 81200 as a “proprietary system,” meaning the Agilent 81200 will not be combined with other VXI modules in one system, then go to STEP 4a.

STEP 4a: Selecting the mainframe

If you’ve made the decision to configure a "proprietary system," you are now in the position to select a mainframe. Two mainframes are available, the Agilent E4840A small frame with three free slots and the Agilent E4849B mainframe with 10 free slots. Both mainframes include a built-in PC running Windows NT 4.0®. The user software is also installed. All modules and front-ends ordered with the mainframes come factory installed.

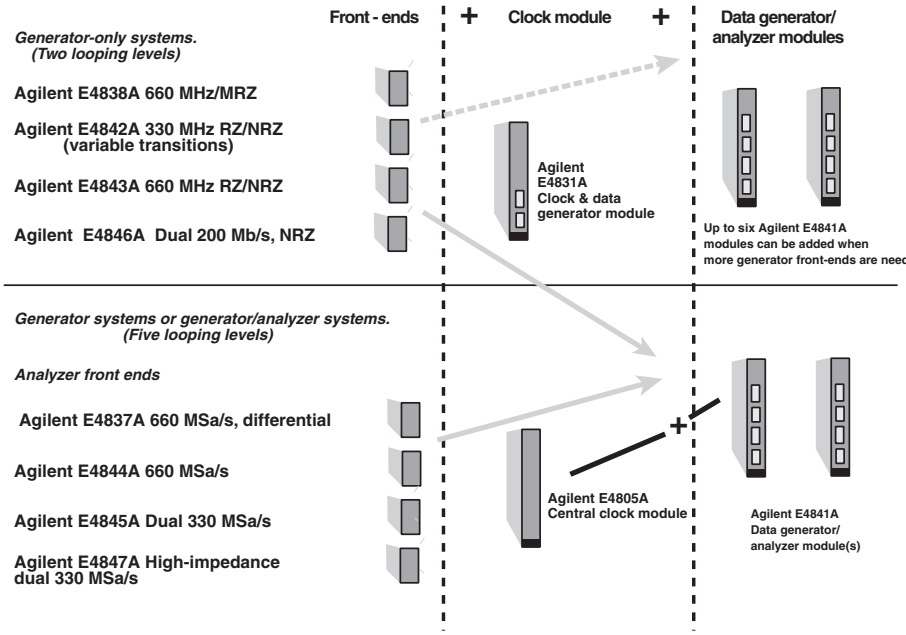

Figure 2: Front-ends and modules

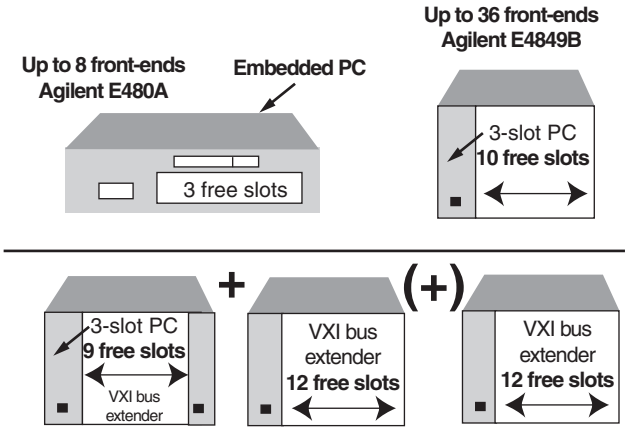

Figure 3: Mainframes and expanders

Expander frames
For more module slots, one or two Agilent E4848B expander frames can be connected. To do this, a VXI extender module (Agilent E4849B Opt 002) is required. The module occupies one of the otherwise free slots and is connected to a corresponding VXI extender that is supplied as part of the expander frame.

Note that, when one or two expander frames are fitted, an Agilent E4805A Central Clock Module must be included in all frames. The Agilent E4831A Clock & Data Generator Module is unsuitable for systems with expander frames.

Personalized system configuration
Now you are in a position to configure your system to meet your specific requirements with the Agilent 81200 Configuration Sheets. For configuration instructions, please consult the box on page 9. If you do not fill out the configuration sheets, your system will be delivered with the conventional configuration pre-installed. Now go to STEP 5.

STEP 4b: Integrating Agilent 81200 modules with other VXI test equipment

To run the Agilent 81200 modules in a standard VXI test system with other VXI test equipment, it is necessary that a controller with the operating system Windows NT 4.0® is present, on which the Agilent E4873A User Software for the Agilent 81200 can run. Therefore, either an embedded VXI controller, or a Slot 0 command module has to be installed in the mainframe. The command module has to be connected to an external PC, on which the Agilent E4873A User Software is running. For operating the Agilent 81200 platform in a VXI test system, the following list, comprising of VXI controllers, command modules and frames, is recommended. Please also refer to figure 4.

VXI Controller:
- Agilent E6235A VXI PC
- National Instruments VXIpc-850

	Product Description	Model Number	Quantity
Mainframes	Small mainframe – 3 free slots. Mainframe – 10 free slots VXI extender module (E1482B, 1 slot) Required if 1 or 2 expander frames are needed Expander frame	Agilent E4840A Agilent E4849B Agilent E4849B Opt 002 Agilent E4848B	
Software	Agilent 81200 User Software 5 licenses of Agilent 81200 User Software	Agilent E4873A Agilent E4873A Opt 005	

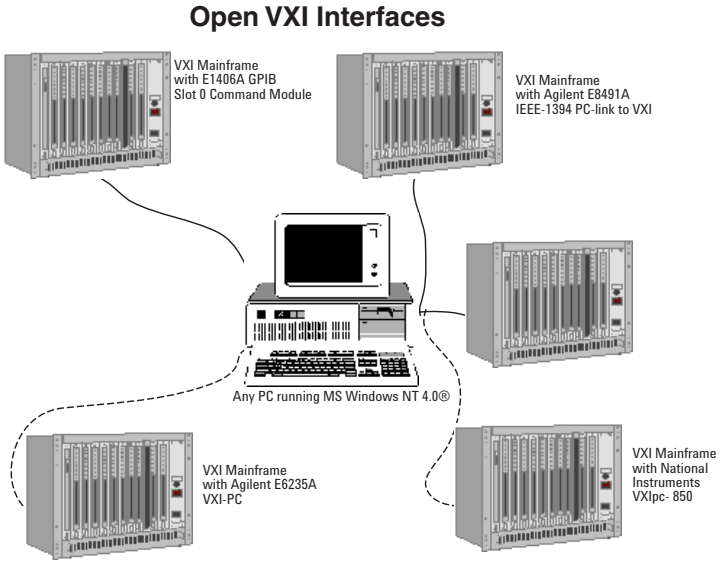

Figure 4: Recommended Standard VXI Interfaces

Command modules:
- Agilent E1406A GPIB Slot 0 command module

- Agilent E8491B IEEE-1394 PC link to VXI
- National Instruments MXI-2 Interface

Frames:
- Agilent E8403A VXI Mainframe, C-Size

Please consider the power requirement of the modules and front-ends when you configure your VXI test system. For details about power requirements, consult *Agilent 81200 Data Generator / Analyzer Platform*, data sheets, p/n 5965-3415E, or download the power requirement calculation table (MS Excel) for the Agilent 81200 from:
www.agilent.com/find/81200_configinfo

It is necessary to order the Agilent E4873A User Software for the Agilent 81200 separately.

Expander frames
For more module slots, one or two Agilent E4848B expander frames can be connected. To do this, a VXI extender module Agilent E1482B is required. The module occupies one of the otherwise free slots and is connected to a corresponding VXI extender that is supplied as part of the expander frame.

Note that, when one or two expander frames are fitted, an Agilent E4805A Central Clock Module must be included in all frames. The Agilent E4831A Clock & Data Generator Module is unsuitable for systems with expander frames.

STEP 5: Choosing the user interface, support options, installation options, and test accessories

User Interface

The compact choice is the display and entry panel that mounts onto the front of the mainframe and hinges for optimum viewing/connector access. It can only be used when connected to the frames Agilent E4840A and Agilent E4849B in the "proprietary system."

Alternatively, a VGA display, PC keyboard and mouse provide a larger, higher resolution display and standard-sized keys.

Support, documentation and rackmount options

Please consult the table below.
We recommend that a CD-ROM drive is ordered so that user software upgrades can be installed.

The following user interfaces are available as Agilent E4840/49B mainframe options:

Option 001 display and entry panel
Includes 5"x 4" flat VGA display, miniature keyboard and touch pad

Option 003/004/005:
15"/17"/21" Ultra VGA displays

Option 006 keyboard (U.S./ English) and option 007 mouse

Figure 5: User interfaces

	Product Description	Model Number	Quantity
		Agilent E4840A/49B Agilent E4840A/49B	
User interface options	5" x 4" display and entry panel	Opt 001	
Interface options	15" VGA monitor 17" VGA monitor 21" VGA monitor Keyboard, US/English Mouse (two button) CD-ROM SCSI drive – includes SCSI-2 cable and termination	Opt 003 Opt 004 Opt 005 Opt 006 Opt 007 Opt 008	
Documentation options	Additional user manual set Japanese localization CD-ROM Service Guide (part number E4849-91022)	Opt OB1 Opt ABJ Opt OBW	
Rackmount options	Rack flange kit (part number E8400-80923) (Only for the Agilent E4849B and Agilent E4848B)	Opt AX4	
Support options	One year on-site warranty Five year return repair service Software update notification service (12 per year) Commercial calibration with test report Five year return calibration with service	Opt W01 Opt W50 Opt +NAO Agilent E4805A/31A/41A Opt UK6 Agilent E4805A/31A/41A Opt W52	

Controlling instruments with the Agilent 81200 (only for "proprietary systems")
The embedded PC of the frames Agilent E4849B and Agilent E4840A includes a GPIB interface so that other GPIB instruments can be controlled with the Agilent 81200 platform (figure 6). To do this, you need to install suitable controller software such as C or VEE. The GPIB interface also allows the Agilent 81200 to be controlled from another computer, such as an ATE system controller.

Communicating over networks (only for "proprietary systems")
The Agilent 81200's PC also includes a LAN interface. The Agilent 81200 can be controlled from a network computer and for convenient vector transfer, servers may also be accessed (figure 6). The data format used for transferring vectors is a STIL (Standard Test Interface Language) subset (ASCII file with header and footer). Vector files can also be transferred via 3.5" disks or the optional external CD-ROM drive.

Additional test software for automated characterization of your design
If you want to automate your characterization measurements and create shmoo plots, jitter measurements and eye diagrams, you can simply install the Agilent E4974A Characterization Software Components. For details, also including the system requirements, please consult *Agilent E4974A Characterization Software Components*, data sheet, p/n 5968-4259E.

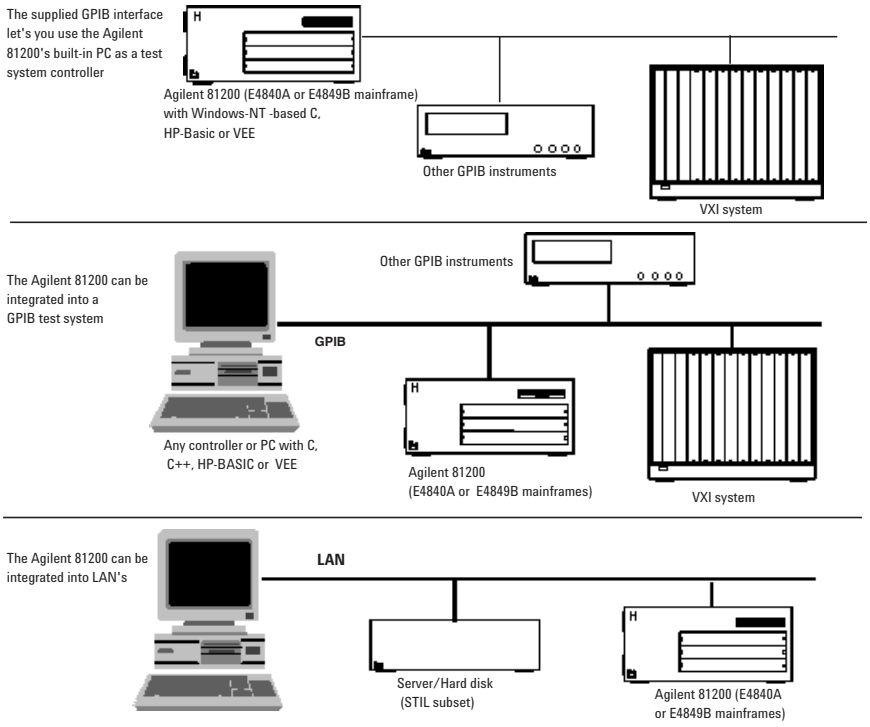

Figure 6: The Agilent 81200 can be integrated into all common system test environments

	Product Description	Model Number	Quantity
Agilent 81200 dedicated Accessories	Agilent 81200 Test Fixture	Agilent E4839A	
	Pogo cable kit: 4*SMA(m) & 2 Pogo adapter for the Agilent E4839A	Agilent E4839A Opt. 001	
	Universal DUT Test Board	Agilent E4839A Opt. 002	
	Adapter Kit: 4*SMA(m) I/O Adapter	Agilent 15440A	
Test Software	Characterisation Software Components		
General Accessories	Cable Kit: 4*SMA(m) to SMA(m)	Agilent 15442A	
	Cable Kit: 10*SMA(m) to SCI Connector	Agilent 15441A	
	SMA coax. cable, 1 m.	Agilent 8120-4948	
	Torque wrench, SMA.	Agilent 8710-1582	
	Adapter Kit: 4* SMA(m) I/O Adapter	Agilent 15440A	
	Adapter SMA (m)/BNC (f).	Agilent 1250-1200	
	Adapter right-angle SMA (m-f).	Agilent 1250-1249	
	Adapter right-angle SMA (m-m).	Agilent 1250-1397	
	Adapter tee SMA.	Agilent 1250-1698	
	Pulse adder/splitter, SMA.	Agilent 11667B	
	500 ps transition converter.	Agilent 15433B	
	1 ns transition converter.	Agilent 15434B	
	2 ns transition converter.	Agilent 15438B	
	Cable, GPIB.	Agilent 10833B	
	VEE 5.0 on CD-ROM.	Agilent E2120F	
	BASIC on 3.5" disks.	Agilent E2060B	

DUT Fixturing
For convenient and reliable DUT fixturing for DUT's with up to 192 pins, there is the Agilent E4839A Test Fixture available. For details, please consult *Agilent E4839A Test Fixture,* data sheet, p/n 5968-3580E.

Simulation data link for VHDL and Verilog
BestLink/81200, a simulation data link is available to process and transfer simulation data from Verilog and VHDL simulators. For details, please consult the *BestLink/81200 Simulation Data Link for the Agilent 81200,* product information, p/n 5968-2548E or visit:

www.diagonal.com

Test accessories
Please consult the table on page 6.

STEP 6: Checking your configuration

Front-ends and modules:

What do I need to run generator channels up to 1.32 Gbit/s?
You need two Agilent E4843A or Agilent E4838A generator front-ends, which are EXOR-ed internally added to generate one 1.32 Gbit/s signal. For better signal performance, for signals above 1 Gbit/s, please also consider an external addition, by using an Agilent 11667B (APC-3.5 power splitter, DC to 26.5 GHz) or an Agilent 11636B (DC to 26.5 GHz power divider, APC-3.5).

For operation in EXOR addition mode you only need two Agilent E4843A respectively Agilent E4838A front-ends per module.

I need generator channels that operate up to 200 Mbit/s and with more than 512 Kbit memory depth per channel. Can I use the Agilent E4846A dual generator front-ends?
No. If you need more than 512 Kbit, you should use the Agilent E4843A/38A (max. 660 Mbit/s) front-ends. The Agilent E4846A dual generator front-ends share the channel's memory depth of 1024 Kbit, this is why they only support 512 Kbit. This is also true for dual analyzer front-ends.

For more details please consult *Agilent 81200 Data Generator/ Analyzer Platform*, data sheet, p/n 5965-3415E.

I want to run a PRBS pattern on one channel and data from another channel at the same time. Is that possible?
Yes, but you have to use two modules, one for the PRBS and one for the control signals.

I want to use just the Agilent 81200 analyzer channels. Is this configuration possible?
Yes, but we recommend that one generator channel as a timing reference for the system is used, otherwise the trigger output would have to be used as a timing reference.

Mainframe/system control and accessories:

I'd like to fit a VXI DVM into a spare slot in the Agilent 81200 frame. Will that work?
Yes, if you have configured the Agilent 81200 platform as described in the section STEP 4b as an "open" system.

I test my designs in a remote environment so I won't need monitors and so on connected to the Agilent 81200. Will it boot without a monitor and keyboard?
Yes, but you will need a mouse. However, you will need a monitor to perform tasks such as shut down and to install user software upgrades.

Can I fit Agilent 81200 modules into an existing VXI system?
Yes, please refer to STEP 4b. Plug and play drivers for the Agilent 81200 are an integral part of the Agilent E4873A Rev. 2.1 User Software.

Can I combine rack & stack instruments with the Agilent 81200?
Yes. You can use an external controller or you can use the Agilent 81200's built-in PC as a controller. A GPIB (IEEE 488.2) interface is already installed on the Agilent 81200 system controller. You will however, need to install controller software such as VEE, Agilent HP-BASIC or C.

I want to integrate the Agilent 81200 into a system. How can I control it and transfer test vectors?
These requirements can be fulfilled via LAN or GPIB. Interfaces for both are installed on the Agilent 81200 Controller. The vector file format is a STIL subset (Standard Test Interface Language; ASCII file with header and footer).

Upgrading an existing Agilent 81200 data generator/analyzer platform

The Agilent 81200 Data Generator/Analyzer Platform can be extended or adapted as needed. Front-ends, modules and expander frames can be added at any time. Orders for individual units are supplied with the installation instructions.

User software upgrades

Revisions and enhancements to the user software will be available from time-to-time on CD-ROM, for which an external CD drive is needed such as the Agilent E4840A/49B Opt 008. The operating system should not be upgraded because the user software is specified for operation on Windows NT Rev 4.0 US-English localization.

Example configurations (for a "proprietary system")

Here are some example configurations, providing an overall impression of the scope of the Agilent 81200 Data Generator/Analyzer Platform.

Clock generators, pulse/pattern generators

Requirements

A single or multi-channel generator with:

- independent phase and duty cycle adjustment
- variable slopes
- frequency f and f/n simultaneously
- up to 660 MHz

Example configuration

- Agilent E4840A three-slot mainframe
- Option 001 display and entry panel
- Agilent E4831A clock/data generator
- Two Agilent E4838A front-ends
- SMA cables (Agilent 15442A)

Extensions

If more than two channels are needed, add one or two Agilent E4841A modules with up to four front-ends each.

For data rates below 200 Mbit/s (NRZ) the Agilent E4846A dual-output front-end can be used instead of the Agilent E4838A. This can economize on the number of front-ends and modules required.

For data rates up to 660 MHz, the Agilent E4843A front-ends should be used.

Data generators

Requirements

Similar to those of the pulse/pattern generators, additional requirements are:

- deep, segmentable, loopable memory for generating many vectors
- bus, control and clock signals from a single source

Example for 20 channels

- Agilent E4849B mainframe
- Option 001 display and entry panel
- Agilent E4805A clock module
- 5 Agilent E4841A modules
- 20 Agilent E4838A front-ends

For data rates below 200 Mb/s, the Agilent E4846A dual-output front-end can be used instead of the Agilent E4838A. This way, control channels can be accommodated economically.

As an alternative to the display and entry panel, a full-size monitor, keyboard and mouse can be ordered. See figure 4 for details.

Data generator/analyzer

Example for 16 channels

- Agilent E4849B mainframe
- Option 001 display and entry panel
- Agilent E4805A clock module
- 4 Agilent E4841A modules
- 8 Agilent E4843A front-ends
- 8 Agilent E4844A front-ends

With the above configuration, eight data generator channels and eight analyzer channels are provided. Other mixes are feasible, as the Agilent E4841A can accept any mix of front-ends.

Note however, that all front-ends within a module have the same sequence. Thus, when connecting to I/O ports (where analysis must take place at a different time from data generation), the generator front-ends should use different Agilent E4841A modules to the analyzer front-ends. For more than eight channels, the Agilent E4849B mainframe should be ordered, instead of the Agilent E4840A. For I/O applications where there is not enough signal to drive 25Ω (that is the effective resistance of a generator channel connected to an Agilent E4844A or Agilent E4845A analyzer front-end), the Agilent E4847A analyzer front-end with selectable high-impedance should be used.

	Product Description	Model Number	Quantity
Software	Agilent 81200 user software upgrade to latest revision.	Agilent E4873A Opt 001	

Systems needing more than ten module slots

The Agilent E4849B mainframe can be extended using the Agilent E4848B expander frame. The maximum configuration with one expander is:

- Agilent E4849B mainframe
- Option 001 display and entry panel (ormonitor/keyboard/mouse options)
- Option 002 VXI extender module
- Agilent E4805A clock module
- 8 Agilent E4841A modules
- 32 front-ends, any mix
- Agilent E4848B expander frame
- Agilent E4805A clock module
- 11 Agilent E4841A modules
- 44 front-ends, any mix

The maximum number of front-ends for this configuration is 76.

All required connecting cables are supplied with the above products. SMA cables have to be ordered separately.

Systems needing more than 19 module slots

A second expander frame can be connected. The maximum configuration with two expanders is 120 channels.

If in doubt, please contact your local Agilent Technologies representative.

Steps to configure your own personal system:

1) Select the configuration sheets to fill out

- For configuration of the Agilent E4840A Small mainframe, use the configuration sheet on page III

- Configuring the Agilent E4849B mainframe as a standalone system (without the Agilent E4848B Expander frames) use the sheet on page V

- Configuring a system with more than one frame, use the configuration sheets on pages VII, IX and XI

2) Select the desired slot for your module

On the 1st row of each sheet you can mark with a cross, what kind of module you want to have plugged into which slot. For this task, make use of the table on page 3 where you have already entered your choice of modules and front-ends.

3) Select the desired slot for your front-end:

Each module holds up to four front-ends. Make use of the table on page 2 again and write the product number (e.g. E4847A) the kind of front-end you would like to have in the appropriate slot. Please note:

- Module Agilent E4805A doesn't hold any front-ends

- Module Agilent E4831A holds only two front-ends (only generator front-ends) in the 3rd and 4th front-end slot

- Module Agilent E4841A holds four front-ends

4) Check the power requirements

Checking for power requirements for each frame with the power requirement calculation table (MS Excel) is useful, to be on the safe-side. The power requirement spreadsheet can be downloaded from:

www.agilent.com/find/81200_configinfo

5) Fill out the Fax Cover Sheet on the next page, and fax it together with the completed configuration sheets to the Fax number on the cover sheet.

Please make sure that you specify your Agilent order number on the fax cover sheet, otherwise your personal configuration requirement will not be processed.

Fax Cover Sheet

Agilent 81200 Configuration Guide

To: OFC/BVS Agilent Technologies GmbH,
Herrenberger Straße 130,
71034 Böblingen, Germany

Fax Number: +49 (7031) 464-6532

If you have problems with this fax, please contact:
+49 (7031) 464-7674

From:

Name: _____

Company: _____

Telephone: _____

Email: _____

Sales representative: _____

Agilent order no. **(mandatory):** _____

Comments:

Configuration Sheet: E4840A Small Frame

☐ E4805A ☐ E4831A	☐ E4841A ☐ E4831A	☐ E4841A ☐ E4831A

Please choose one of the front-ends:
E4837A
E4838A
E4843A
E4844A
E4845A
E4846A
E4847A
and write the product number (e.g. E4837A) in the appropriate slot

	Slot 0	Slot 1	Slot 2
Front-End 1			
Front-End 2			
Front-End 3			
Front-End 4			

Configuration Sheet:
Mainframe E4849B as standalone frame

Please choose one of the front-ends:
E4837A, E4838A, E4843A, E4844A, E4845A, E4846A, E4847 and write the product number (e.g. E4837A) in the appropriate slot. Use the table on page 3.

Slot	0	1	2	3	4	5	6	7	8	9	10	11	12
	Embedded 81200 Controller			☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A
Front-End 4				X									
Front-End 3				X									
Front-End 2													
Front-End 1													

Configuration Sheet:
Mainframe E4849B as Masterframe(if more than one frame is required)

Please choose one of the front-ends:
E4837A, E4838A, E4843A, E4844A, E4845A, E4846A, E4847 and write the product number (e.g. E4837A) in the appropriate slot. Use the table on page 3.

			3	4	5	6	7	8	9	10	11	12
			☒ Opt 002	☒ E4805A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A
Embedded 81200 Controller			Front-End 4									
			Front-End 3									
			Front-End 2									
			Front-End 1									
Slot	0	1	2	3	4	5	6	7	8	9	10	11	12

Configuration Sheet:
E4848B Expander Frame No 1

Please choose one of the front-ends:
E4837A, E4838A, E4843A, E4844A, E4845A, E4846A, E4847 and write the product number (e.g. E4837A) in the appropriate slot. Use the table on page 3.

Slot	0	1	2	3	4	5	6	7	8	9	10	11	12
	☒ Opt 002	☒ E4805A	☒ E4841A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4831A
Front-End 4													
Front-End 3													
Front-End 2													
Front-End 1													

Configuration Sheet:
E4848B Expander Frame No 2

Please choose one of the front-ends:
E4837A, E4838A, E4843A, E4844A, E4845A, E4846A, E4847 and write the product number (e.g. E4837A) in the appropriate slot. Use the table on page 3.

Slot	0	1	2	3	4	5	6	7	8	9	10	11	12
Front-End 4	☒ Opt 002	☒ E4805A	☒ E4841A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4805A ☐ E4831A	☐ E4841A ☐ E4831A
Front-End 3													
Front-End 2													
Front-End 1													

Related Literature	Pub. Number
• *Agilent 81200 Data Generator/Analyzer Platform,* brochure	5968-4261E
• *Agilent 81200 Data Generator/Analyzer Platform,* data sheet specifications	5965-3415E
• *Agilent E4874A Characterization Software Components,* data sheet	5968-4259E
• *Agilent E4839A Test Fixture,* data sheet	5968-3580E
• *BestLink/81200 Simulation Data Link for the Agilent 81200 Data Generator/Analyzer Platform,* product information	5968-2548E
• *Data transfer between Design, Simulation and the Agilent 81200,* product note	5967-6276E
• *Flat Panel Display Link Test,* product note	5968-8028E

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