



Information on downgrading 1100 HPLC modules

Objective

The objective of this note is to give some guidance on downgrading of Agilent 1100 series modules' firmware (if required).

Qualification status of the instrument

1100 Firmware revisions are documented in the 1100 Installation Qualification and in the Instrument Configuration page of the 1100 OQ/PV report. When changing the 1100 firmware to a newer or older revision, use the 1100 IQ Attachment Form for the Agilent 1100 Series HPLC to document this change.

In this document "update" refers to a change to the firmware, older or newer.

Review the *Firmware Revision History* document located at

http://www.chem.agilent.com/scripts/cag_firmware.asp

to assure that a repeat of the OQ/PV is not recommended after update of the firmware. Update the firmware following the instructions located at the above URL.

Minimum firmware revision vs. mainboard revision

Table 1 lists the various 1100 modules, their main board part numbers and the minimum firmware revisions that can be loaded.

NOTE

When downgrading or upgrading, the corresponding resident firmware should be loaded as well. For revisions refer to the Firmware Revision History document.

Table 1 Minimum firmware revision vs. mainboard revision

Module Type	Module description	Mainboard part number	Minimum firmware revision	Notes
Pumps	G1310A Isocratic Pump G1311A Quaternary Pump G1312A Binary Pump	G1311-66540 G1311-66540 G1312-66540	4.06 / 5.09 [007]	4 / 5
	G1310A Isocratic Pump G1311A Quaternary Pump G1312A Binary Pump	G1311-66530 G1311-66530 G1312-66530	4.06	4
	G1310A Isocratic Pump G1311A Quaternary Pump G1312A Binary Pump	G1311-66520 G1311-66520 G1312-66520	2.03 / 3.32	1 / 2
	G1310A Isocratic Pump G1311A Quaternary Pump G1312A Binary Pump	G1311-66500 G1311-66500 G1312-66500	1.05	1
	G1361A Preparative Pump	G1361-66500	4.17	1
	G1376A Capillary Pump	G1376-66530	4.08	1
	G2226A Nano Pump	G2226-66530	5.05 [002]	1
	Samplers	G1313A Autosampler	G1313-66520	2.06 / 3.30
G1313A Autosampler		G1313-66500	1.04	1
G1329A/G1330A Thermostatted Autosampler		G1329-66500	3.03 / 3.30	1 / 2
G1367A Well Plate Autosampler		G1367-66500	4.08	1
G1377A Micro Well Plate Autosampler		G1367-66500	4.13	1
G1389A Micro Autosampler		G1329-66500	4.06	1
G2260A Thermostatted Prep Autosampler		G1329-66500	5.01 [003]	1
G2258A Dual Loop Autosampler		G1367-66500	5.09 [009]	1
G1364A Fraction Collector		G1364-66500	5.01 [009]	1
Detectors	G1314A Variable Wavelength Detector	G1314-66521	2.05 / 3.30	1 / 2
	G1314A Variable Wavelength Detector	G1314-66520	2.03	1
	G1314A Variable Wavelength Detector	G1314-67501	1.06	1
	G1315A/B Diode Array Detector	G1315-66540	4.11	1
	G1315A/B Diode Array Detector	G1315-66530	4.03	1
	G1315A Diode Array Detector	G1315-66520	2.03 / 3.30	1 / 2
	G1315A Diode Array Detector	G1315-66500	1.05	1
	G1321A Fluorescence Detector	G1321-66500	3.43	1

Table 1 Minimum firmware revision vs. mainboard revision

Module Type	Module description	Mainboard part number	Minimum firmware revision	Notes
	G1362A Refractive Index Detector	G1362-66500	3.60	1
	G1365A/B Multiple Wavelength Detector	G1365-66540	4.11	1
	G1365A/B Multiple Wavelength Detector	G1365-66530	4.03	1
	G1365A Multiple Wavelength Detector	G1365-66520	3.61	1
Others	G1316A Thermostatted Column Compartment	G1316-66530	5.05	1
	G1316A Thermostatted Column Compartment	G1316-66520	2.03 / 3.30	1 /2
	G1316A Thermostatted Column Compartment	G1316-66500	1.05	1
	G1323B Control Module	n/a	B.01.01	1
	G1323A Control Module	n/a	A.1.04	1

Notes:

- 1 Initial version, no further downgrade possible.
- 2 Introduction of AMD flash ROMs, boards with these chips limit the downgrade.
- 3 Backward compatible to previous board version.
- 4 The three pumps are now produced containing the new style main electronics board, which accepts ONLY the A.04.06 revision firmware and above.
- 5 The three pump boards now support the Active Seal Wash feature, which requires the A.05.09 [007] revision firmware and above.

