GI-4000 Version History - 01/17/2021

Version 4.1: Released 01/17/2021

Version 4.1 added support for the new MI-334 SOIC/SOP 8/16 pin adapter. No other changes or bug fixes were made to this version.

Version 3.9: Released 10/19/2020

Version 3.9 added Auto and Manual ID support for the following Low Voltage SPI devices Altera/Intel EPCQ128, GigaDevice GD25Q64, Micron N25Q128, MT25QL128, N25Q032A/N25Q03213/25QL032, Spansion S25FL512, Winbond W25Q32 and W25Q64. Also added Manual ID Support for Atmel AT24C256 and Microchip 24FC256 (Both manually selected as 24C256). No other changes or bug fixes were made to this version.

Version 3.8: Released 09/29/2020

Version 3.8 added Auto and Manual ID support for the following Low Voltage SPI devices from Micron and GigaDevice MT25QL064, MT25QL128, MT25QL256, MT25QL512, MT25QL01G, MT25QL02G, GD25Q64, GD25Q127 and GD25Q257. Also added STD-4 (Kobe-4) option to SPI chips bigger than 1MB. No other changes or bug fixes were made to this version.

Version 3.7: Released 06/13/2019

Version 3.7 added Auto and Manual ID support for the Winbond.W25Q16 series of Low Voltage SPI devices. Also added manual selection of the 25Q and 250512 range of SPI devices. Corrected 25032 voltage from 3.3 volts to 5.0 volts – 3.3 volt version now available as 25Q32. Also corrected the W25Q128BV size. No other changes or bug fixes were made to this version.

Version 3.6: Released 08/08/2017

Version 3.6 added ManualID for Novomatic 32MB SIMM80 1-bank (2 x ST M29DW128G, 3 x SN74CBT16211A). No other changes or bug fixes were made to this version.

Version 3.5: Released 08/06/2017

Version 3.5 added AutoID for Novomatic 32MB SIMM80 1-bank (2 x ST M29DW128G, 3 x SN74CBT16211A). No other changes or bug fixes were made to this version.

Version 3.4: Released 07/12/2017

Version 3.4 added Auto ID support for the Macronix MX29LV040 Low Voltage FLASH. No other changes or bug fixes were made to this version.

Version 3.3: Released 12/14/2016

Version 3.3 added Manual ID support for Microchip 24FC256 (manual 24C256) and manual 24C128. No other changes or bug fixes were made to this version.

Version 3.2: Released 11/11/2016

Version 3.2 added Auto and Manual ID support for Macronix MX25L3233FMI-08G as MX25L32XXA (Manual ID 25032), Macronix MX25L1605D (Manual ID 25016), Macronix MX25L3205D as MX25L32XXA (Manual 25032), Macronix MX25L6405D as MX25L64XXA (Manual ID 25064 16 pin PDIP Low Voltage SPI devices. Also added AT24C512 (manual 24C512) I2C device. No other changes or bug fixes were made to this version.

Version 3.1: Released 09/01/2014

Version 3.1 added Auto and Manual ID support for Macronix MX25L8006EPI and MX25L1606EPI 8 pin PDIP Low Voltage SPI devices. No other changes or bug fixes were made to this version.

Version 3.0: Released 07/15/2013

Version 3.0 added Auto and Manual ID support for the Winbond W25Q032BV and W25Q128BV Low Voltage SPI devices. No other changes or bug fixes were made to this version.

Version 2.9: Released 04/01/2013

Version 2.9 added Auto and Manual ID support for the AMIC 25L032 Low Voltage SPI device and the Eon 29LV040A Low Voltage Flash device. No other changes or bug fixes were made to this version.

Version 2.8: Released 06/26/2012

Version 2.8 incorporates an additional FPGA image to support the new MI-333 Universal PLCC Adapter. Anyone using the MI-333 Universal PLCC Adapter must be running Version 2.8 or higher in order for the adapter to work properly. This version also added Auto and Manual ID support to the library for a large number of new EPROMs, EEPROMs and FLASH devices. This version also fixed the Load/Verify problems experienced with the MI-332 Universal DIP Adapter in version 2.7. No other changes or bug fixes were made to this version.

Version 2.7: Released 12/15/2011

Version 2.7 incorporates additional FPGA images to support the new MI-332 Universal DIP Adapter. Anyone using the MI-332 Universal DIP Adapter must be running Version 2.7 or higher in order for the adapter to work properly. This version also added Auto and Manual ID support to the library for several new Low Voltage SPI devices including SST 25VF016B, AMIC A25L040 and Macronix MX25L4006E. These new devices can be tested using either the MI-325 or the MI-332 adapter. This version also fixed incorrect signature problems with SST 29EE512, Atmel AT29C512, Atmel AT49F512, Xicor X28C256, ST27128A and ST27C202. These devices may have given wrong signatures when using Auto ID mode. Manual ID mode was not affected for these devices except for the ST27C202. No other changes or bug fixes were made to this version.

Version 2.6: Released 03/10/2011

Version 2.6 incorporates a final fix for the Konami 27C4096 walking signature problems experienced on some GI-4000 units. In some cases, both the engineering changes and this software update are needed to totally resolve the problems. No other changes or bug fixes were made to this version.

Version 2.5: Released 02/25/2011

Version 2.5 corrected the Konami 27C4096 calculation speed problem that was accidentally introduced in version 2.4. This device use to take 15 seconds to calculate a signature in version 2.3. It then went to 53 seconds in version 2.4 and is now down to 14 seconds in this version. This version also added the CF automatic adapter selective speed feature. This feature enables CF cards to run at the fastest possible speed based on the data read from each CF card during the Auto ID process. This has reduced CF calculation times by about 50% over the previous version. Lastly, the progress bar was further improved and optimized for maximum speed efficiency. No other changes or bug fixes were made to this version.

Version 2.4: Released 02/03/2011

Version 2.4 added a 2nd Xilinx image to support the new MI-331 CF adapter. Space was made for the 2nd image in the previous release, but is actually populated in this release. An improved progress bar was also added to better display the actual calculation progress during signature calculation. This version also added Auto and Manual ID support to the library for several new Low Voltage SPI devices, including Winbond W25Q64BV, Macronix MX25L6445E and Atmel AT25DF641 using the MI-325 adapter. No other changes or bug fixes were made to this version.

Version 2.3: Released 10/18/2010

Version 2.3 added Auto and Manual ID support for a number of Low Voltage SPI devices. As a result of these new additions, the manual ID screens for the 25 Family of devices was totally restructured in order to properly identify and support these newer devices. The following SPI devices were added to the library; Winbond W25X10, W25X20, W25X40, W25X80, W25Q80BV, and SST 25VF080B. Also added 2nd Xilinx image to support new CF adapter soon to be released. Changes that were made with to the 27C4096 device in the un-released version 2.2 have been incorporated in this version. No other changes or bug fixes were made to this version.

Version 2.2: Un-Released

Version 2.2 switched processing of the data for the 27C4096 devices from the Xilinx (hardware) to the Microprocessor (Software) to eliminate walking signatures on slower 90ns parts. No other changes or bug fixes were made to this version.

Version 2.1: Released 03/29/2010

Version 2.1 added Auto and Manual ID support for the Atmel 27LV256 & 27BV256 Low Voltage Flash devices. Changed the number of wait states for 27C4096 devices from 06 to 0F to eliminate walking signatures on slower 90ns parts. No other changes or bug fixes were made to this version.

Version 2.0: Released 01/20/2010

Version 2.0 added GAT3 protocol for use with GLI Verify. Customers that want to use their GI-4000 with GLI Verify v5.0 and above will need to have both the "Serial Link" and "GLI Verify" feature installed in their GI-4000. These features will enable the signatures generated by the GI-4000 to be sent over the RS-232 serial port to a PC running GLI Verify software. Please note that the Baud rate on the GI-4000 must be set to 9600 baud in order to communicate with GLI Verify. No other changes or bug fixes were made to this version.

Version 1.9: Released 10/19/09

Version 1.9 moved all 72-pin SIMM control functions away from the Microcontroller and into the Xilinx FPGA. The result was a major speed enhancement of all 72-pin SIMM devices. This is especially noticeable with the IGT Standard, Pixel and CG SIMM devices. These devices used to take up to 16 minutes 09 seconds to calculate an "Old 8" digit signature, now they take 24.41 seconds. A bug fix was added to correct problems with the progress bar not moving during Load and Verify functions. Access time for Bluberi 80-pin SIMMs was also modified to eliminate intermittent walking signatures on some devices. Auto ID and Manual ID support for Aristocrat's SST29VF040 device and IGT's M25P32 device was also added. No other changes or bug fixes were made to this version.

Version 1.8: Released 09/01/09

Version 1.8 moved all 80-pin SIMM control functions away from the Microcontroller and into the Xilinx FPGA. The result was a major speed enhancement of all 80-pin SIMM devices. This is especially noticeable with the Bluberi 32MB and 64MB SIMM devices. These devices used to take 16 minutes, 13 seconds and 32 minutes 22 seconds, respectively, to calculate an "Old 8" digit signature, now they take 25.45 seconds and 50.31 seconds, respectively. A progress bar has also been added for all device types so the user can see the progress of the selected calculation. This version of the software has been further enhanced to make it even more stable then all previous versions. No other changes or bug fixes were made to this version.

Version 1.7: Released 08/01/09

Version 1.7 moved all Firmware Hub control functions away from the Microcontroller and into the Xilinx FPGA. The result was a major speed enhancement of all Firmware Hub devices. This is especially noticeable with the IGT AVP 3.0 Boot 1 device (49LF004B) and the WMS CPU-NXT 2 Bios Chip device (49LF008). These devices used to take 43 seconds and 1 minute, 26 seconds, respectively, to calculate a signature, now they take 0.8 seconds and 1.3 seconds, respectively. This version also incorporates a much more stable version of the software. No other changes or bug fixes were made to this version.

Version 1.6: Released 06/08/09

Version 1.6 moved all SPI control functions away from the Microcontroller and into the Xilinx FPGA. The result was a major speed enhancement of all SPI devices. This is especially noticeable with the IGT AVP Boot 1 & Boot 2 devices (25FL032 and 25F4096/25FL040). These devices used to take 4 minutes, 15 seconds and 33 seconds, respectively, to calculate a signature, now they take 5.8 seconds and .7 seconds, respectively. This version also fixed problems with SST 49LF002 device giving wrong signatures when using Auto ID mode, Manual ID mode gave correct signatures. No other changes or bug fixes were made to this version.

Version 1.5: Released 04/15/09

Version 1.5 added a calculation progress bar for all devices handled by the microprocessor. Also changed default signature for the Quick Calc function when testing CompactFlash devices. The previous default signature was Kobe40 signature, now it will default to the Kobe8 signature (if SHA-1 feature is not enabled) or to the SHA-1 signature (if the SHA-1 feature is enabled). This version also added support for Bluberi's new 32MB and 64MB 80-pin SIMMs using low voltage Flash. Also added Auto ID for the Atmel AT29BV010 low voltage Flash device, manual ID for the 25010, 25020 SPI devices, Auto ID for the Spansion 25FL040A and 25FL032 SPI devices, and Auto ID for the ST M50FW080 Firmware Hub device. No other changes or bug fixes were made to this version.

Version 1.4: Released 10/29/08

Version 1.4 added a voltage monitoring screen. This new screen can be seen by pressing the Setup button from the main screen, then pressing the number 3 option. It will display the current status of the battery while under battery power and will display "AC Adapter" while under AC power. Also, removed PMC 29F002T from our supported device list. No other changes or bug fixes were made to this version.

Version 1.3: Released 09/19/08

Version 1.3 increased the number of wait states for the 27V160 device using the MI-314 adapter. This was done to eliminate intermittent walking signatures that occurred on some units. This version also allowed Compact Flash configuration values other than (standard) 848A Removable Drive values to be accepted. This change allowed for the Automatic ID of all Stec and Wintec (Bally) Compact Flash cards. Previously, these cards could not be seen or tested by the GI-4000. Please note that these cards are configured as Fixed Disk and meant to be read in IDE Mode. The GI-4000 can only read Compact Flash cards in I/O Mode or Memory Mode like all standard CF Removable disks. Hence, these cards may sometime act a bit erratic and give wrong signatures when read by the GI-4000. No other changes or bug fixes were made to this version.

Version 1.2: Released 09/12/08

Version 1.2 increased the Microprocessor wait states for all 72-pin SIMMs using the MI-318 and MI-320 adapters. This was done to eliminate intermittent walking signatures that occurred on some units. No other changes or bug fixes were made to this version.

Version 1.1: Released 09/06/08

Version 1.1 fixed a bug in the Agent application software regarding the proper setup and usage of the serial port. This problem was confined to the Agent application software and did not have any affect on the GI-4000 application. This version also corrected intermittent backlighting problems that would cause the backlighting to flash on and off several times during power-up. No other changes or bug fixes were made to this version.

Version 1.0: Released 08/25/08

This is the initial release version for the GI-4000. It is a continuation of the previous GI-3000 version 7.5, with the addition of several devices having been added to the library. The Supported Device List posted on our web site reflects the current list of devices supported in this release.