



Documents Information(2017-04-11 ~ 2017-05-10)

No	Document Name	Version	Release Date	Description	Revirision History	Source
1	GPM1500A Preliminary Data Sheet	0.1	2017/4/18			Sales contact
2	GPCD9002A Data Sheet	1.2	2017/4/20		Rename PADs name : VDD_IO1 --> VDD_IO2 VDD_IO2 --> VDD_IO1	website
3	GPCD9002A Pad Assignment and Locations	1.1	2017/4/20		Rename PADs name : VDD_IO1 --> VDD_IO2 VDD_IO2 --> VDD_IO1	Sales contact
4	GPL872V00A EMU Board User Manual	1.1	2017/4/25		Add Body GPL87220B, GPL87216B, GPL87208B.	Sales contact
5	GPC3256C Pad Assignment and Locations	1.0	2017/4/26			Sales contact
6	GPC3340C Pad Assignment and Locations	1.0	2017/4/26			Sales contact
7	GPC3XXXAx/Bx/Cx/Dx Confirmation Sheet	2.8	2017/4/26		GPC3XXXAx/GPC3XXXBx/GPC3XXXCx/GPC3XXXDx	website
8	GPC3XXXAx/Bx/Cx/Dx Series Data Sheet	2.1	2017/4/26	3 channel 12-bit PWM speech	1.Add GPC3340C/D, GPC3256C, GPC3170A1~GPC3096A1, GPC3170B1 bodies and related information. 2.Modify document title name	website
9	GPCE4XXXX Data Sheet	1.0	2017/5/4			website
10	GPCE4XXXX_0001 Data Sheet	1.0	2017/5/4			website
11	GPL081AX/082A Programming Guide	2.5	2017/5/4		1. Modify GPL082A VLCD: 1/2 Bias: VLCD = 2 * internal Vreg 1.5V. 1/3 Bias: VLCD = 3 * internal Vreg 1.5V, in chapter 2.4 Differences in EV Chip, GPL081AX, and GPL082AX. 2. Modify EV VLCD: 1/2 Bias: VLCD = 2 * VDD. 1/3 Bias: VLCD = 3 * VDD, in chapter 2.4 Differences in EV Chip, GPL081AX, and GPL082AX.	Sales contact
12	Product Selection Guide 2017-Q2	2017.0	2017/5/3	2017-Q2 Product Selection Guide	version update	Sales contact

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1	G+ Midiar	3.0.12	2017/4/20	G+Midiar is a powerful music development tool which offers an effective way to manage MIDI files and to edit tone color libraries. In addition, G+Midiar also provides functions of playing music on PC and download and play on an emulation board.	<ul style="list-style-type: none"> - Add series GPL951, GPF16002, GPCD9T, GPM4XXX. - Rename body series "GPC74" to "4 bit RISC" - Support multiple midi files emulation.(only 4 bit RISC, GPCD9T, GPL951 and GPF16002) - Support midi file emulation with all instruments/drums in the project. - Support multiple section Loop enable/disable setting. - Support Replace Sample function in Instrument Page. - GPC3: Fixed finding avaiable channel rule for Drum note. - GPC3: Fixed drum NoteOff assigned wrong channel issue. - GPC3: Fixed user event lose issue for GEM file. - GPC3L: Fixed finding avaiable channel rule for Drum note. - GPC3L: Fixed drum NoteOff assigned wrong channel issue. - GPC3L: Fixed user event lose issue for GEM file. - GPC3: Fixed envelop timebase in tone table issue. - 4 bit RISC: Fixed finding avaiable channel rule for Drum note. - 4 bit RISC: Fixed drum NoteOff assigned wrong channel issue. - 4 bit RISC: Fixed user event lose issue for GEM file. - 4 bit RISC: Support dynamic channel assignment on all note. - 4 bit RISC: Support Dynamic Note Arrangement function. - GPCEXXX: Fixed delta time for MIDI note. - GPCEXXX: Support User Event note (include I/O Event). - Fixed Recent Project wrong file issue. - Fixed small noise issue. 	Sales contact

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2	unSP IDE Tool 3.0.12 Patch 004	004	2017/4/21		<ul style="list-style-type: none"> - Add body: GPF16002A, GPCE4064A, and GPCE4064A_0001. - Modify body: AP1168A, APP1168A, GPCE4064A, GPCE4096A, GPCE4096_0001A, GPCE4096UA, GPCE4096UA_0001, GPCE4P096UA, GPCE4P096UA, and GPL95100UA. - Support to download internal and external memories in hdb format. - Support to load default body specific template files for new project. - Support to adjust project setting for 'change body' function automatically. - Support to enable or disable the mechanism of checking the internal memory is enough or not. - Enhance external memory(SPIFlash) download performance for GPL951/GPF16002 series body. - Enhance the user experience in opening project. - Enhance 'function view' stability issue. - Enhance the ICE connection stability. - Enhance the application feature. - Upgrade Probe F/W to 1.2.4.3 - Fixed bug: The library tag crash issue. - Fixed bug: Download issue for GPL951 series body. 	Sales contact
3	G+ Easy Writer	1.2.7	2017/4/28	G+EasyWriter is a simple writer tool. It provides a simple user interface to control the download job. User only needs to give the target bin/HDB file path and then presses Execute button to finish the download job.	<ul style="list-style-type: none"> - Add new body: GPC74P170A, GPC74P340A, GPC71P170A, and GPC71P340A. - Add new body: GPF16002A. - Add new body: GPL87208Bx, GPL87216Bx, GPL87220Bx, and GPL086Bx. - Add new body: GPCD9T170Ax and GPCD9T340Ax. - Add new body: GPCE4064A, GPCE4064A_Flash, GPCE4064A_0001, and GPCE4064A_0001_Flash. - Enhance the download external memory (SPI Flash) mechanism for u'nSP series bodies. - GPCE2 series body supports to download external memory feature. - Fixed up download issue for GPL95100UA, GPL95101UA, and GPF16002A. 	Sales contact
4	G+ IDE for ARM	1.0.3	2017/4/28	G+ IDE for ARM, the Generalplus well-designed integrated development environment(IDE), provides everyone excellent user experiences. Form fast prototyping to complex embedded applications, G+ IDE for ARM satisfies all the requirements in programming and efficiency.	<ul style="list-style-type: none"> - Support GPL32705B. - Support Stack overflow detection. - Project Settings adds option for download log. - Enhance the ICE Connection Failed message. (Please check core power issue (R142 on EV 1.1)) - Give accurate messages for ICE connection failed or FW upgrade failed. - Add GCC user 	Sales contact

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5	G+ IDE for RISC	1.0.3	2017/5/9	The G+IDE for RISC is a new Generalplus Integrated Development Environment which the GUI control is easy to use like Microsoft Visual C++. It is composed of the application workspace and the work platform, assembly language, features programming development. The friendly interface will assist you to developing your programmer more easily and efficiently.	1.0.3 <ul style="list-style-type: none"> - Confirm Sheet new could be generated automatically. - Improve breakpoint point stability. - GPC71 support MIDI configuration. 	Sales contact
6	G+IDE for 6502	1.1.6	2017/5/9	G+ IDE for 6502, the Generalplus well-designed integrated development environment(IDE), provides everyone excellent user experiences. From fast prototyping to complex embedded applications, G+IDE for 6502 satisfies all the requirements in programming and efficiency.	V1.1.6 <ul style="list-style-type: none"> - Add new body series to Assembler Project (GPC3256Cx, GPM6X1009B, GPCD3T, GPCD6T, GPCD9T). - Add new body series to Assembler Project (GPL87208Bx, GPL87216Bx, GPL87220Bx, GPL086Bx). - Add new body series to C Project (GPC3256Cx, GPCD3T, GPCD6T, GPCD9T). - Add new body series to C Project (GPL81202A, GPL812P02A, GPL87208Bx, GPL87216Bx, GPL87220Bx). - Add new body series to C Project (GPM6X1129B, GPM6X1816A, GPM6X1864A). - Add new body series to QPC Project (GPC3256Cx, GPCD9T). - Add new body series to IAR-C Project (GPL87208Bx, GPL87216Bx, GPL87220Bx, GPL086Bx). - Update MaskOption setting for GPL086Bx, GPL87208Bx, GPL87216Bx and GPL87220Bx bodies. - Fixed setting break point fail issue in 6502 ROM code project. - Fixed bugs in All-series QPC Kernels. - Improved Bookmark function. - Support Hot-Key Import/Export function. - Upgrade GP Probe III F/W to V1.2.4.5. - Upgrade GP Probe II F/W to V1.2.4.5. - Upgrade ICE-mini F/W to V1.2.4.5. 	Sales contact