

Customer		Date														
Project title		Code No.														
Project description																
Working voltage	<input type="checkbox"/> 2.4V ~ 3.6V (2-battery) <input type="checkbox"/> 3.6V ~ 5.5V (3-battery)	CPU Frequency:	_____ MHz													
		ROSC Frequency:	_____ MHz													
LCD Matrix	COM: _____ SEG: _____ Bias: _____ V _{LCD} : _____ V															
32768Hz OSC	<input type="checkbox"/> X'TAL <input type="checkbox"/> Unused (2Hz, 4Hz, ... Timer base not available)															
Components	<input type="checkbox"/> GPLD112 <input type="checkbox"/> GPLD80 <input type="checkbox"/> GPLD801 <input type="checkbox"/> GPLD802															
Release code file (fill "00H" for unused area)																
Binary filename:		Binary file check sum:														
ROM Size: 256K bytes	<input type="checkbox"/> Check															
Zero Page RAM Size: 192 bytes, \$40~\$FF	<input type="checkbox"/> Check															
Data RAM Size: 3840 bytes, \$100~\$FFF	<input type="checkbox"/> Check															
LCD RAM Size: \$100~\$FFF	<input type="checkbox"/> Check															
LCD start address: _____, end address: _____.																
Stack: start address: _____, end address: _____.																
Interrupt vector: \$FFFA-FFFF <input type="checkbox"/> Check																
Low voltage detection	2.4V <input type="checkbox"/> enable <input type="checkbox"/> disable	2.6V <input type="checkbox"/> enable <input type="checkbox"/> disable														
Mask option																
Low voltage reset	2.3V <input type="checkbox"/> Enable <input type="checkbox"/> Disable															
Watchdog	<input type="checkbox"/> Enable <input type="checkbox"/> Disable															
If watchdog is enabled, please check the followings:																
(A). Watchdog jumper must be removed from the EV board. <input type="checkbox"/> Check																
(B). Watchdog port must be cleared. <input type="checkbox"/> Check																
Input / Output																
Port0 (checked by "√" or "x")								Port1 (checked by "√" or "x")								
	b0	b1	b2	b3	b4	b5	b6	b7	b0	b1	b2	b3	b4	b5	b6	b7
Input																
Output																
Port2 (checked by "√" or "x")																
	b0	b1	b2	b3	b4	b5	b6	b7								
Input																
Output																
Port3 (checked by "√" or "x")																
	b0	b1	b2	b3	b4	b5	b6	b7	If Tx and Rx are selected, b5 and b7 cannot be I/O. If Eldrv0 and Eldrv1 are selected, b3 and b4 cannot be I/O.							
Input																
Output																
				Eldrv0	Eldrv1	Tx		Rx								
Hardware /Software																
Program must be tested by EPROM on EMU board and piggyback.														<input type="checkbox"/> Check		
If Frosc > 7MHz, Port18 b3 must be set to "1".														<input type="checkbox"/> Check		
When system powers on, LCD control port and buffer must be initialized. Otherwise, the data of LCD driver will be randomly generated.														<input type="checkbox"/> Check		
DC-DC charge pump frequency must be in the range of 80K ~ 100KHz.														<input type="checkbox"/> Check		
When UART is applied, all configurations in \$19 must be set up again and \$19.5 must be set to "0" after reset operation (\$19.5=1).														<input type="checkbox"/> Check		
Sleep procedure														<input type="checkbox"/> Check		
Make sure the FP interrupt is completed and then CPU must enter sleep mode within one frame-time (e.g. suppose frame rate is 60Hz; CPU must enter sleep mode within 1/60 second after the FP interrupt is completed).																
Make sure to clear wakeup port immediately after wake up.														<input type="checkbox"/> Check		

Before entering into sleep mode, the CPS0, CPS1, and CPS2 in P_Port04H MUST be set to "0 0 0" respectively to turn off LCD clock. Fail to fill "0" into the above bits may result in current leakage during sleep mode.		<input type="checkbox"/> Check
For rest conditions, the CPS0, CPS1, and CPS2 in P_Port04H CANNOT be set to "0 0 0" respectively.		<input type="checkbox"/> Check
Before entering sleep mode, 24VEN (\$18.5) cannot be set to "1" (enabled). To enable 24VEN (\$18.5), it should be set immediately after reset or wakeup.		<input type="checkbox"/> Check
In tone mode, DACL0 and DACL1 (\$12.3 and \$12.4) must be set as "00".		<input type="checkbox"/> Check
Test Program		
The following test program area and test program vectors are reserved for GENERALPLUS. The user's program or data must not be in these ROM areas.		
Test Program Area	CPU view: \$C000 ~ \$C7FF ROM area: \$4000 ~ \$47FF	<input type="checkbox"/> Check
Test Program Vector	CPU view: \$FFF2 ~ \$FFF7	<input type="checkbox"/> Check
General programming checklist		
The general programming checklist intends to provide some general characteristics about GENERALPLUS devices. It is the customer's responsibility to check all the information in the list. No responsibility is assumed by GENERALPLUS for any non-checked box even this confirmation sheet has been approved by GENERALPLUS. Make sure the following conditions are met and verified:		
CPU stack pointer must be reset after system power-on and wake-up.		<input type="checkbox"/> Check
All RAM must be initialized after power on.		<input type="checkbox"/> Check
Timer content must be initialized before timer interrupt is enabled.		<input type="checkbox"/> Check
Do not enable interrupt before initializing RAM.		<input type="checkbox"/> Check
The instructions of "SEI" and "CLI" must be removed from the IRQ and NMI service routines.		<input type="checkbox"/> Check
Sleep port must be cleared and re-initialized before entering sleep mode.		<input type="checkbox"/> Check
The used RAM not over the stack reserved area.		<input type="checkbox"/> Check
Correct RAM/ROM size and start addresses.		<input type="checkbox"/> Check
No current drain on I/O in sleep mode.		<input type="checkbox"/> Check
No I/O remains floating in sleep mode.		<input type="checkbox"/> Check
Non-used I/O ports should be masked off (for input process). Example (suppose PortA [7:4] are invalid): LDA PortA ; read I/O port A Data AND #0FH ; mask off high nibble		<input type="checkbox"/> Check
Switch tone mode on as follows Step1. Select tone mode. Step2. Setting volume. If step2 is performed prior to step1, the volume is unknown .		<input type="checkbox"/> Check
Document version		
Programming guide title and version:		
User's guide title and version:		
Other documents (if any):		
Development tool / board version		
EV board version:		
EV chip version:		
Piggyback / demo board version:		
Software / Hardware tools version:		
Customer note		GENERALPLUS note
Name (print): _____ Tel: _____		Name (print): _____ Tel: _____
Signature: _____		Signature: _____

Note: Please send/fax this form to GENERALPLUS. GENERALPLUS will return it back with signature.