下载升级工具使用说明



1. 拨码设置



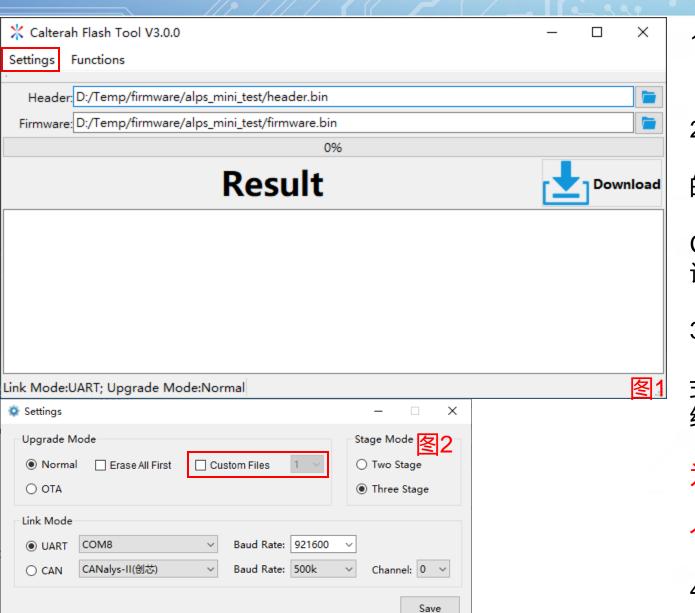
• 若使用OTA升级模式,需UART/CAN连接被升级对象,并确保被升级对象正常 开机启动。

• 若使用普通下载模式升级,被升级主板需要按以下方式拨码。

ALPS-UART							ALPS-CAN							
1	2	3	4	5	6	1	2	3	4	5	6			
			ON	ON					ON					
OFF	OFF	OFF			OFF	OFF	OFF	OFF		OFF	OFF			
		ALPS_MI	NI-UART					ALPS_M	INI-CAN					
1	2	ALPS_MI	NI-UART 4	5	6	1	2	ALPS_M	INI-CAN 4	5	6			
1 ON	2 ON	3	NI-UART 4 ON		6 ON	1 ON	2 ON	ALPS_M 3 ON	NI-CAN 4 ON	5	6 ON			

2. 工具配置





- 1. 按 "Settings" 菜单 (图1) 进入工具配置页面, 如图2;
- 2. 在 "Link Mode" 中选择连接模式; 如选择 "UART" ,再后面的下拉框中选择正确 的连接端口;

如选择"CAN",在后面的下拉框中选择正确的CAN盒子型号,以及使用的"Channel"(CAN盒子设备标识1/2通道时,需要转化为0/1设置Channel);

3. 设置升级模式 "Upgrade Mode"; 下载自定义bin文件,需要设置为 "Normal"模式,并勾选 "Custom Files"设置文件数量,如图2 红色框;

读取Flash数据时,需要设置"Upgrade Mode"为"Normal"。

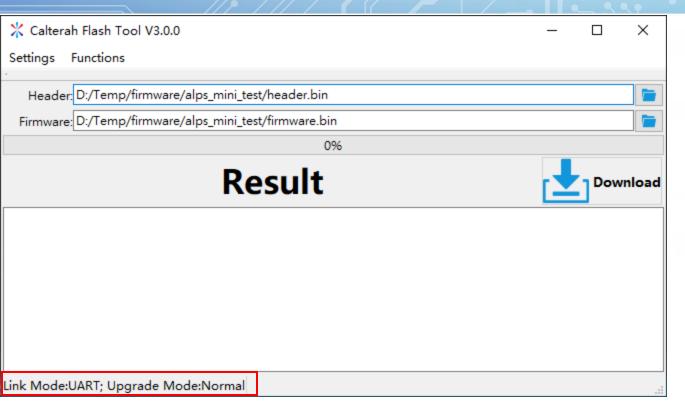
"Erase All First"被勾选时,下载前软件会对整个Flash进行擦除。

4. 根据实际下载文件设置 "Stage Mode"。

fidential - No Distribution Without NDA ©2021, Calterah Semiconductor

3. 下载升级





- 1. 根据需求,以及2中的说明,完成下载工具配置;
- 2. 查看工具状态栏提示(如左图红色框),确认当前配置是否正确;
- 3. 选择设置好需要下载的文件;
- 4. 按 "Download" 按钮, 软件自动完成整个下载流程, 并在提示框中打印提示信息;
- 5. 软件下载结束会在"Result"提示栏中提示下载结果,提示信息为 "Downloading…"时请勿断电断连!
- 软件的配置会自动保存, 1/2/3步骤可根据实际情况确认是否需要操作。

4. Flash数据读取



-1-																	
* Calterah	Flash 1	Tool V3.0.0													_		×
Settings Fu	unction	ıs															
													Addre	ss: 0x30000	Size: 1024	Re	ad
address	00	01	02	03	04	05	06	07	08	09	0A	OB	0C	0D	0E	OF	^
00000000	74	6c	61	43	00	00	00	00	4d	61	79	20	32	36	20	32	
00000010	30	32	31	00	00	00	00	00	31	35	3a	30	34	3a	32	32	
00000020	00	00	00	00	00	00	00	00	43	61	6c	74	65	72	61	68	
00000030	5f	52	61	64	61	72	5f	53	79	73	74	65	6d	00	00	00	
00000040	00	01	03	00	00	40	04	00	01	00	00	00	00	01	33	00	
00000050	04	00	00	00	00	10	00	00	00	00	00	00	00	00	00	00	
00000060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000080	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000090	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000000a0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000000Ь0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000000c0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000000d0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000000e0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000000f0	00	00	00	00	00	00	00	00	00	00	00	00	a3	cf	21	06	
00000100	04	01	33	00	69	20	00	80	0a	20	80	Of	33	00	90	36	
00000110	4c	20	00	80	e2	20	02	00	4a	20	00	00	ab	20	c1	00	
00000120	6b	20	80	03	ab	20	48	00	6b	26	40	79	33	00	00	30	
00000130	0a	24	80	3f	79	00	2c	a7	0a	22	80	3f	77	00	00	40	
00000140	4a	23	00	30	0a	20	80	Of	33	00	00	32	0a	21	80	Of	
00000150	33	00	00	32	0c	20	40	80	e0	20	81	Of	33	00	7c	01	
00000160	0a	23	80	Of	36	00	54	55	04	11	02	04	04	18	90	00	
00000170	0c	20	c0	80	e0	20	8b	Of	33	00	68	01	0a	20	80	Of	
00000180	77	00	00	00	0a	21	80	Of	33	00	d4	02	0c	20	40	80	
00000190	e0	20	81	Of	33	00	b4	01	0a	23	80	Of	77	00	e4	2a	
000001a0	04	11	02	04	04	18	90	00	0c	20	c0	80	e0	20	8b	Of	
000001b0	33	00	a0	01	0a	20	80	Of	36	00	54	55	0a	21	80	Of	
000001c0	36	00	54	55	0c	20	40	80	e0	20	81	Of	33	00	ec	01	
000001d0	0a	23	80	Of	37	00	c8	0d	04	11	02	04	04	18	90	00	
000001e0	0c	20	c0	80	e0	20	8b	Of	33	00	d8	01	0a	20	80	Of	
000001f0	77	00	00	40	0a	21	80	Of	37	00	c8	0e	0c	20	40	80	
00000200	e0	20	81	Of	33	00	24	02	0a	23	80	Of	77	00	74	6e	
00000210	04	11	02	04	04	18	90	00	0c	20	c0	80	e0	20	8b	Of	
00000220	33	00	10	02	0a	20	80	Of	77	00	78	6e	0a	21	80	Of	
00000230	79	00	2c	87	0c	20	40	80	e0	20	8a	Of	33	00	54	02	
00000240	4a	22	00	00	04	18	90	00	0c	20	40	80	e0	20	8b	Of	
00000250	33	00	44	02	aa	20	01	02	15	08	1f	00	4a	20	40	00	
00000260	ab	20	c1	02	aa	20	01	02	fd	08	1f	82	ба	20	40	04	
00000270	19	08	1f	00	4a	20	40	00	6b	20	00	04	4a	26	00	70	
00000280	4a	26	00	70	4a	26	00	70	0a	20	80	Of	00	00	00	00	
00000290	4c	20	00	80	e2	20	02	00	22	20	80	Of	77	00	1c	28	
000002a0	22	20	80	Of	33	00	cc	8d	22	20	80	Of	33	00	0c	32	
000002Ь0	22	20	80	Of	33	00	f0	36	22	20	80	Of	33	00	00	32	
000002c0	69	20	40	00	4a	26	00	70	4a	26	00	70	4a	26	00	70	
000002d0	f1	07	cf	ff	dc	1c	48	b3	41	с6	42	c7	0c	1c	00	34	
000002e0	10	1c	c0	37	66	0e	20	00	0c	73	08	46	61	08	30	00	
000002f0	8a	25	ff	1b	e5	86	59	Of	30	10	4c	70	66	d9	48	c2	
00000300	47	c2	46	c2	14	1c	44	30	16	1c	82	30	2f	27	3f	04	
00000310	68	87	c1	40	60	7b	85	c1	0a	25	00	10	2f	26	3f	04	~
Link Mode:UART; Upgrade Mode:Normal																	

- 1. 软件在 "Normal" 模式下按菜单 "Functions->FlasgAccess", 软件进行 fastboot下载后后自动进入Flash操作页面;
- 2. 在 "Address" 中输入需要读取的Flash地址,在 "Size" 中输入需要读取的数据长度,按 "Read" 按钮,软件会读取Flash数据并保存到data文件夹下以地址命名的bin文件中;

注意事项:

- 1. 地址和长度输入,带0x为16进制数,否则为10进制数;
- 2. 一次读取长度建议不大于0x10000;
- 3. 读取长度大于1024时,软件只显示前1024字节,后台文件会对所有读取数据保存。

5. 下载软件其他配置

Head=

CustomFile1= CustomFile2= CustomFile3= CustomFile4= CustomFile5=



下载工具安装目录下的 ".\config\download.cfg" 文件配置说明

红色框子需要根据项目配置,其余配置同步与GUI设置

```
[Setting]
ConnectMode=1
Uart=8
CanType=0
DownloadMode=0
StageNum=3
CustomFile=0
CanChannel=0
UartBaudrate=921600
CanBaudrate=500
Split=0x30000 Flash分片下载,一次最大下载片区大小
[Address] 下载文件存放地址
Header=0
Boot=0x20000
Firmware=0x30000
[Files]
Boot=
Firmware=
```