Marlin 2.0.5.3 Settings for B	RIGTRFF	SKR 1 4	Turbo T	MC5160 to a	drive Ultima	aker UM/12	2+ 3D Printer						
<del>_</del>	JOTALL	JIXIX 1.1_	_10100, 1	100100100	1			4					
equired Hardware					this sheet version:	0.2	added info about removing R25, R2	0					
1 BTT SKR 1.4 Turbo		1											
4 TMC5160 Stepper drivers			-										
1 BTT DCDC Power Module for SKR 1.4		1/00 00:55	DIVA			-							
1 PT100 Pre-Amplifier (Ultimaker Style), 3 ch			(Yוע)										
1 MOSFET Adapter Board to run Hotend Fan	off of SERVO co	onnector (DIY)											
it will these Mods do?													
Enable flicker-free dimmable Case Lighting,	using the origin	al Ultimaker Case	LED-Strips										
enable PWM-controlled Parts Fan			<u> </u>										
enable PWM-controlled 5VDC for use with I	Hotend Fan												
increase Bed-Heater and Hotend-Heater PV	VM to 60 Hz to s	smoothen power c	consumption (note	e: you must use PID for Be	ed Heater). This improve	es print quality.							
enable ulticontroller display and Clickwheel							Itimaker-with-skr-14/						
Item	Spec1	Spec2	Spec3	Ultimainboard	SKR 1.4 Port	SKR 1.4	SKR-Spec1	!!! Required HW Changes !!!	where?				
Bed-Heater	24VDC	SW-PWM	Screw Term	J21:1-2 / Heated-Bed	P_205	HB	Sixt Speci	in Required TVV orlanges :::	File	line			
	21100		00.011.101111	SETT E7 TIOUTOU DOU	1_200			must use Ultimaker-Style PT100 Pre-Amp	1.10			1	
Bed-Temp	PT100		MOLEX 2	J13 / Temp3	P_025	ТВ	JJ12	must remove R26 on SKR board	configuration.h	415	#define T	EMP_SENSO	R_BED 20
	24VDC	HF-PWM	MOLEX 2		P_203	FAN0	3312	mast remove R20 on SRR board		431	#dofino (	VACE LICHT	_PIN P2_03
Case Light	24VDC	HF-PVVIVI	IVIOLEX 2	J15	P_203	· ·	1		Configuration_adv-h	431	#uerrie C	ASE_LIGHT	_PIN P2_U3
E-Stepper	E) (D.0	D) * /* *		J30	D 000	EOM	122.1.0102.1151152.0115	DIT DO (DO F. t	0 - 6 1	100	#dof!	O AUTO EA	N DIN DO CO
Hotend-Fan	5VDC	PWM	1	J34	P_200	SERVOS	J22:1_SIG, :2_NPWR, :3_GND	must use BTT DC/DC Extender and extra MOSFET	Configuration_adv-h	423	#aetine E	U_AUTU_FA	N_PIN P2_00
Hotend-Heater	24VDC	SW-PWM		J21:5-6 / Heater 1	P_207	HE0							
								must use Ultimaker-Style PT100 Pre-Amp			#define T	EMP_SENSO	R 0 20
Hotend-Temp	PT100		MOLEX 2	J7	P_024	TH0	J11	must remove R25 on SKR board	configuration.h	409			1_0 20
Part Fan	24VDC	PWM		J14	P_204	HE1			pins_BTT_SKR_common.h	66	#define F	AN1_PIN	P2_04
					_				<u> </u>	86		FAN_PIN	
X-Stepper				J27									
X-Stop		1		J5	P_129	X-Stop	J1:1_P5, :2_GND, :3_SIG	connect to :2_GND, :3_SIG, pull to GND on activate					-
				ļ	Γ_127	λ-3t0p	J1.1_F 5, .2_GND, .5_5IG	connect to .2_Givb, .3_3id, pull to givb on activate					
Y-Stepper				J28	D 120	V C+~~	12	connect to (2 CND (2 CIC multise CND on eatherty					
Y-Stop		1		J8	P_128	Y-Stop	J3	connect to :2_GND, :3_SIG, pull to GND on activate	-				
Z-Stepper				J29									
Z-Stop				J6	P_127	Z-Stop	J4	connect to :2_GND, :3_SIG, pull to GND on activate					
Ulticontroller E1 Ulticontroller E2			2Mx5_0.100 2Mx5_0.101	J32 J33		E1DET E0DET		Anthrix mod (I2C and 3.3V supply) Anthrix mod (I2C and 3.3V supply)	configuration.h	1933	#define L	JLTI_CONTR	OLLER
PWM frequency for Case Light, Fans_1		P_124 uses 60 H	z PWM, not usefu	I for lighting	HW-PWM frequeny def	fault is too high, us	ee frequency definition	must use free-wheeling diodes on outputs	Configuration_adv-h	384	#define F	AST_PWM_F	AN_FREQUENCY 314
		P_124 uses 60 H	z PWM, not usefu	I for lighting	HW-PWM frequeny def	fault is too high, us	se frequency definition		Configuration_adv-h	384 2089		AST_PWM_F	
PWM frequency for Case Light, Fans_2			z PWM, not usefu					must use free-wheeling diodes on outputs must use free-wheeling diodes on outputs		2089	#define F	AST_PWM_F	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC							se frequency definition solution, but that's ok for heaters		configuration.h configuration.h	2089 2101	#define F	AST_PWM_F OFT_PWM_S	AN
PWM frequency for Case Light, Fans_2									configuration.h	2089	#define F	AST_PWM_F OFT_PWM_S	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC						60 Hz. reduced re	solution, but that's ok for heaters	must use free-wheeling diodes on outputs	configuration.h configuration.h configuration.h	2089 2101	#define F	AST_PWM_F OFT_PWM_S	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC						60 Hz. reduced re	solution, but that's ok for heaters	must use free-wheeling diodes on outputs	configuration.h configuration.h configuration.h	2089 2101	#define F	AST_PWM_F OFT_PWM_S	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud			60 Hz. reduced re	solution, but that's ok for heaters	must use free-wheeling diodes on outputs	configuration.h configuration.h configuration.h	2089 2101	#define F	AST_PWM_F OFT_PWM_S	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud		new frequency approx.	60 Hz. reduced re	solution, but that's ok for heaters		configuration.h configuration.h configuration.h	2089 2101	#define F	AST_PWM_F OFT_PWM_S	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	ch ripple	new frequency approx.	60 Hz. reduced re	solution, but that's ok for heaters  FAN3  XM  YM	must use free-wheeling diodes on outputs  ZMA  ZMB  EDM  E1M	configuration.h configuration.h configuration.h	2089 2101	#define F	AST_PWM_F OFT_PWM_S	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	ch ripple  #include "/lpc1768/pin	new frequency approx.	60 Hz. reduced re	solution, but that's ok for heaters  FAN3  XM  YM	must use free-wheeling diodes on outputs  ZMA  ZMB  EDM  E1M	configuration.h configuration.h configuration.h	2089 2101	#define F	AST_PWM_F OFT_PWM_S	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	ch ripple  #include "/lpc1768/pin	new frequency approx.	60 Hz. reduced re	solution, but that's ok for heaters  FAN3  XM  YM	must use free-wheeling diodes on outputs  ZMB EDM EIM	configuration.h configuration.h configuration.h	2089 2101	#define F	AST_PWM_F OFT_PWM_S	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	ch ripple  #include "/lpc1768/pin	new frequency approx.	60 Hz. reduced re	solution, but that's ok for heaters  FAN3  XM  YM	must use free-wheeling diodes on outputs  ZHA ZHB EDM EIM  ZHO STATE OF THE STATE O	configuration.h configuration.h configuration.h	2089 2101	#define F	AST_PWM_F OFT_PWM_S	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR	new frequency approx.  IS_BTT_SKR_V1_4.h"  B_common.h"	60 Hz. reduced re	solution, but that's ok for heaters  FAN3  XM  YM	must use free-wheeling diodes on outputs  ZMA ZMB EDM E1M  ZMA ZMB EDM E1M  ZMA E1M	configuration.h configuration.h configuration.h	2089 2101 2124	#define F	AST_PWM_F SOFT_PWM_S PCA9632	AN
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector	new frequency approx.  IS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)	60 Hz. reduced re	Solution, but that's ok for heaters  FANS XM YM  CLS	must use free-wheeling diodes on outputs  ZHA ZMB EDM E1M  ZHO E1M	configuration.h configuration.h configuration.h	2089 2101 2124 Connector	#define F #define S #define F	AST_PWM_F FOFT_PWM_S PCA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1:	new frequency approx.  as_BTT_SKR_V1_4.h"  common.h"  Connect what: CASE LIGHT (24 VDC) PARTS FAN (24 VDC)	60 Hz. reduced re	Solution, but that's ok for heaters  FANS XM YM  CLS	must use free-wheeling diodes on outputs  ZHA ZMB EDM E1M  ZHO E1M	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	solution, but that's ok for heaters  FAN3  XM  YM	must use free-wheeling diodes on outputs  ZMB FOM F1M  ZMB FOM E1M  ZMB FOM F1M  ZMB F0M  ZMB F0M	configuration.h configuration.h configuration.h	2089 2101 2124 Connector	#defi ne F #defi ne S #defi ne F	AST_PWM_F FOFT_PWM_S PCA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  as_BTT_SKR_V1_4.h"  common.h"  Connect what: CASE LIGHT (24 VDC) PARTS FAN (24 VDC)	60 Hz. reduced re	Solution, but that's ok for heaters  FANS XM YM  CLS	must use free-wheeling diodes on outputs  ZMB FOM F1M  ZMB FOM E1M  ZMB FOM F1M  ZMB F0M  ZMB F0M	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	Solution, but that's ok for heaters  FANS XM YM  CLS	must use free-wheeling diodes on outputs  ZMA ZMB EDM E1M  ZMB E1M  Z	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	Solution, but that's ok for heaters  FANS XM YM  CLS	must use free-wheeling diodes on outputs  ZMA ZMB EDM E1M  ZMB E1M  Z	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	Solution, but that's ok for heaters  FANS XM YM  CLS	must use free-wheeling diodes on outputs  ZMA ZMB EDM E1M  ZMB E1M  Z	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	Solution, but that's ok for heaters  FANS XM YM  CLS	must use free-wheeling diodes on outputs  ZMA ZMB EDM E1M  ZMB E1M  Z	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	Solution, but that's ok for heaters  FANS XM YM  CLS	must use free-wheeling diodes on outputs  ZMA ZMB EDM E1M  ZMB E1M  Z	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	Solution, but that's ok for heaters  FAN3  XM  YM  G22  BN  G22  BN  G32  BN  GA  GA  GA  GA  GA  GA  GA  GA  GA  G	must use free-wheeling diodes on outputs  ZMA  ZMB  EDM  E1M  ZMS  ZCLS  E0-CLS  E1-CLS  E1-CLS  AND  AND  AND  AND  AND  AND  AND  AN	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	Solution, but that's ok for heaters  FAN3  XM  YM  G22  BN  G22  BN  G32  BN  GA  GA  GA  GA  GA  GA  GA  GA  GA  G	must use free-wheeling diodes on outputs  ZMA  ZMB  EDM  E1M  ZMS  ZCLS  E0-CLS  E1-CLS  E1-CLS  AND  AND  AND  AND  AND  AND  AND  AN	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	Solution, but that's ok for heaters  FAN3  XM  YM  G22  BN  G22  BN  G32  BN  GA  GA  GA  GA  GA  GA  GA  GA  GA  G	must use free-wheeling diodes on outputs  ZMA  ZMB  EDM  E1M  ZMS  ZCLS  E0-CLS  E1-CLS  E1-CLS  AND  AND  AND  AND  AND  AND  AND  AN	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	Solution, but that's ok for heaters  FAN3  XM  YM  G22  BN  G22  BN  G32  BN  GA  GA  GA  GA  GA  GA  GA  GA  GA  G	must use free-wheeling diodes on outputs  ZMA  ZMB  EDM  E1M  ZMS  ZCLS  E0-CLS  E1-CLS  E1-CLS  AND  AND  AND  AND  AND  AND  AND  AN	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	FAN3 XM YM  FAN3 XM YM  G2 BN7 BN9  G2 BN7 BN9  G3 BN7  G3	must use free-wheeling diodes on outputs  ZMA ZMB EDM E1M  ZMA ZMB E	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	FAN3 XM YM  FAN3 XM YM  G2 BN7 BN9  G2 BN7 BN9  G3 BN7  G3	must use free-wheeling diodes on outputs  ZMA ZMB EDM E1M  ZMA ZMB E	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	Solution, but that's ok for heaters  FAN3  XM  YM  G22  BN  G22  BN  G32  BN  GA  GA  GA  GA  GA  GA  GA  GA  GA  G	must use free-wheeling diodes on outputs  ZMA ZMB EDM E1M  ZMA ZMB E	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	FAN3 XM YM  FAN5 CLS  GND	must use free-wheeling diodes on outputs  ZMA ZMB EDM E1M  ZMA ZMB E	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	FAN3 XM YM  FAN3 XM YM  G2 BN7 BN9  G2 BN7 BN9  G3 BN7  G3	must use free-wheeling diodes on outputs  ZMA  ZMB  EDM  E1M  ZMS  ZCLS  E0-CLS  E1-CLS  E1-CLS  AND  AND  AND  AND  AND  AND  AND  AN	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	FAN3 XM YM  FAN5 CLS  GND	must use free-wheeling diodes on outputs  ZMB EOM E1M  ZMB EIM  ZM	configuration.h configuration.h configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	FAN3 XM YM  FAN5 CLS  GND	must use free-wheeling diodes on outputs  ZMB FOM F1M  ZMB F1M	configuration.h configuration.h configuration.h  Configuration.h  RESET Connect what:	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	FAN3 XM YM  FAN5 CLS  GND	must use free-wheeling diodes on outputs  ZMB FOM F1M  ZMB F1M	configuration.h configuration.h configuration.h  Configuration.h  Configuration.h  Configuration.h	2089 2101 2124 Connector EXP1	#defi ne F #defi ne S #defi ne F	AST_PWM_F SOFT_PWM_S CA9632	AN CALE 3
PWM frequency for Case Light, Fans_2 Power smoothing on 24VDC			/M causes too mud	#include "/lpc1768/pin #include "pins_BTT_SKR Connector FAN0: E1: E0:	new frequency approx.  DIS_BTT_SKR_V1_4.h"  Common.h"  Connect what:  CASE LIGHT (24 VDC)  PARTS FAN (24 VDC)  HOTEND	60 Hz. reduced re	FAN3 XM YM  FAN5 CLS  GND	must use free-wheeling diodes on outputs  ZMB FOM F1M  ZMB F1M	configuration.h configuration.h configuration.h  Configuration.h  RESET Connect what:	2089 2101 2124 Connector EXP1 EXP2	#define F #define S #define F  Connect wha Ulticontrolle Ulticontrolle	AST_PWM_F SOFT_PWM_S CA9632	CALE 3