# ADDR

Category	ADDR	Description
Broadcast	FF	Broadcast to All Devices
Broadcast Group	FE	Broadcast to Devices in Group
Broadcast Group	FD	Broadcast to Devices in Group
Broadcast Group	FC	Broadcast to Devices in Group
Broadcast Group	FB	Broadcast to Devices in Group
Broadcast Group	FA	Broadcast to Devices in Group
Broadcast Group	F9	Broadcast to Devices in Group
Broadcast Group	F8	Broadcast to Devices in Group
Broadcast Group	<b>F7</b>	Broadcast to Devices in Group
Broadcast Group	F6	Broadcast to Devices in Group
Broadcast Group	F5	Broadcast to Devices in Group
Broadcast Group	F4	Broadcast to Devices in Group
Broadcast Group	F3	Broadcast to Devices in Group
Broadcast Group	F2	Broadcast to Devices in Group
Broadcast Group	F1	Broadcast to Devices in Group
Broadcast Group Default	F0	Default broadcast group if device has not been configured
Unicast	EF	Unicast to Device
Unicast		Unicast to Device
Unicast	02	Unicast to Device
Unicast Default	01	Default unicast address if device has not been configured
None	00	No receipient

# BOARD

Board	Type
All	FF
Kha-bgt-rainbow	<b>A8</b>
Kha-bgt-preset	<b>A</b> 7
Kha-bgt-main	<b>A6</b>
Kha-bgt-kaox	<b>A5</b>
Kha-bgt-hsi	<b>A4</b>
Kha-bgt-guru	<b>A3</b>
Kha-bgt-dark	<b>A2</b>
kha-bgt-power	<b>A</b> 1
kha-bgt-audio	A0
Kha-led-strip	07
Kha-remote	06
Kha-main	05
kha-relay-2x3-node	04
kha-gateway-usb	03
Kha-led-ikea-node	02
Board Default	01
None	00

CMD

Category	CMD	Opt Len	Payload	Туре	Description
Management	FF	0/2	or <1: board type> <1: board rev>	Command	Reboot Device, optionally only matching specific hardware
Management	FE	0		Reply	Bootloader: Command error
Management	FD	2	<1: board type> <1: board rev>	Command	Bootloader: Do not exit
Management	FC	2	<1: board type> <1: board rev>	Command	Bootloader: Wipe FLASH
Management	FB	2	<1: board type> <1: board rev>	Command	Bootloader: Wipe EEPROM
Management	FA	67	<1: board type> <1: board rev> <1: part 0-7> <64: data>	Command	Bootloader: Firmware data
Management	F9	3	<1: board type> <1: board rev> <1: page>	Command	Bootloader: Firmware write
Reserved	F8		Reserved	Reserved	Reserved
Reserved	F7		Reserved	Reserved	Reserved
Reserved	F6		Reserved	Reserved	Reserved
Reserved	F5		Reserved	Reserved	Reserved
Reserved	F4		Reserved	Reserved	Reserved
Reserved	F3		Reserved	Reserved	Reserved
Reserved	F2		Reserved	Reserved	Reserved TX Enable
Management	F1 F0	0 0		Command Command	TX Disable
Management Reserved	EF		Reserved	Reserved	Reserved
Reserved	EE		Reserved	Reserved	Reserved
Device	ED	1	<1: preset>	Command	Preset
Device	EC	0	N. preserv	Command	UI Enable
Device	EB	0		Command	Ul Disable
Device	EA	0		Command	Debug Enable
Device	E9	0		Command	Debug Disable
Device	E8	1-MAX	- data>	Broadcast	Debug Message
Device	E7	0	Nullar Nullar	Command	Stats Clear
Device	E6	9	<9: stats>	Reply	Stats Response
Device	E5	0	~ 5. 5tat5~	Command	Stats Request
Device	E4	0		Reply	Pong
Device	E3	0		Command	Ping
Device	E2	20	-<-: board type> <1: board rev> <1: device group> <1: 0=boot, 1=app> <4: boot version> <4: boot crc> <4: app version> <4:app crc>	Broadcast	Up
Device	E1	20	<1: board type> <1: board rev> <1: device group> <1: 0=boot, 1=app> <4: bot version> <4: bot crc> <4: app version> <4: app	Reply	Ident Response
Device	E0	0	The board types (1) board revs (1) device groups (1) device groups (4) board types (4) board revs (4) app versions (4) app ve	Command	Ident Request
Register	DF	0		Command	Wipe configuration in memory
Register	DE	0		Command	Store configuration to EEPROM
Register	DD	0		Command	Load configuration from EEPROM
Reserved	DC		Reserved	Reserved	Reserved
Reserved	DB		Reserved	Reserved	Reserved
Reserved	DA		Reserved	Reserved	Reserved
Reserved	D9		Reserved	Reserved	Reserved
Register	E8	1	<1: addr>	Reply	Write Fail
Register	D7	1	<1: addr>	Reply	Write Success
Register	D6		<1: addr> <data></data>	Command	Write <data> bytes to address <addr>, don't reply</addr></data>
Register	D5		<1: addr> <data></data>	Command	Write <data> bytes to address <addr></addr></data>
Reserved	D4	Reserved	Reserved	Reserved	Reserved
Reserved	D3	Reserved	Reserved	Reserved	Reserved
Reserved	D2	Reserved	Reserved	Reserved	Reserved
Register	D1		<1:addr> <data, empty="" failed="" if=""></data,>	Reply	Read Reply <data> bytes from address <addr> or empty if failed</addr></data>
Register	D0	2	<1: addr> <1: len>	Command	Read <len> bytes from address <addr></addr></len>
Reserved	CF	Reserved	Reserved	Reserved	Reserved
Reserved	CE	Reserved	Reserved	Reserved	Reserved
Reserved	CD	Reserved	Reserved	Reserved	Reserved
Reserved	CC	Reserved	Reserved	Reserved	Reserved
Reserved	CB	Reserved	Reserved	Reserved	Reserved
Reserved	CA	Reserved	Reserved	Reserved	Reserved
Reserved	C9	Reserved	Reserved	Reserved	Reserved
Reserved	C8	Reserved	Reserved	Reserved	Reserved
Reserved	C7	Reserved	Reserved	Reserved	Reserved

CMD

Reserved	C6	Reserved	Reserved	Reserved
Reserved	C5	Reserved	Reserved	Reserved
Reserved	C4	Reserved	Reserved	Reserved
Reserved	C3	Reserved	Reserved	Reserved
Sensor	C2	1	<1: 0.5%>	Broadcast
Sensor	C1	1	<1: uint 0.5 degree>	Broadcast
Sensor	C0	8	<1: year - 2000> <1: month> <1: day> <1: hour> <1: minute> <1: second> <1: sunday = 1> <1: calender week>	Broadcast
Reserved	BF	Reserved	Reserved	Reserved
Reserved	BE	Reserved	Reserved	Reserved
Reserved	BD	Reserved	Reserved	Reserved
Reserved	BC	Reserved	Reserved	Reserved
Reserved	BB	Reserved	Reserved	Reserved
Reserved	BA	Reserved	Reserved	Reserved
Reserved	B9	Reserved	Reserved	Reserved
Reserved	B8	Reserved	Reserved	Reserved
Reserved	B7	Reserved	Reserved	Reserved
Reserved	B6	Reserved	Reserved	Reserved
Reserved	B5	Reserved	Reserved	Reserved
Reserved	B4	Reserved	Reserved	Reserved
Reserved	B3	Reserved	Reserved	Reserved
Reserved	B2	Reserved	Reserved	Reserved
App	B1	3	<1: speed> <1: width> <1: enabled>	Broadcast
Арр	В0	3	<1: hue> <1: saturation> <1: intensity>	Broadcast
App Reserved	AF	3 Reserved	·	Broadcast Reserved
		Reserved	·	
Reserved	AF AE AD	Reserved Reserved	Reserved	Reserved
Reserved Reserved	AF AE AD AC	Reserved Reserved Reserved	Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved
Reserved Reserved Reserved Reserved	AF AE AD AC AB	Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved
Reserved Reserved Reserved Reserved Reserved Reserved	AF AE AD AC	Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved
Reserved Reserved Reserved Reserved	AF AE AD AC AB AA A9	Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved
Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	AF AE AD AC AB AA A9 A8	Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved
Reserved	AF AE AD AC AB AA A9 A8 A7	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved
Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	AF AE AD AC AB AA A9 A8 A7 A6	Reserved	Reserved	Reserved
Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	AF AE AD AC AB AA A9 A8 A7 A6 A5	Reserved	Reserved	Reserved
Reserved	AF AE AD AC AB AA A9 A8 A7 A6 A5 A4	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved	Reserved
Reserved	AF AE AD AC AB AA A9 A8 A7 A6 A5 A4 A3	Reserved	Reserved	Reserved
Reserved	AF AE AD AC AB AA A9 A8 A7 A6 A5 A4 A3 A2	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved	Reserved
Reserved	AF AE AD AC AB AA A9 A8 A7 A6 A5 A4 A3 A2 A1	Reserved	Reserved	Reserved
Reserved	AF AE AD AC AB AA A9 A8 A7 A6 A5 A4 A3 A2 A1	Reserved	Reserved	Reserved
Reserved	AF AE AD AC AB AA A9 A8 A7 A6 A5 A4 A3 A2 A1	Reserved	Reserved	Reserved
Reserved	AF AE AD AC AB AA A9 A8 A7 A6 A5 A4 A3 A2 A1 A0 <b>9F</b>	Reserved	Reserved	Reserved
Reserved	AF AE AD AC AB AA A9 A6 A5 A4 A3 A2 A1 A0 9F	Reserved	Reserved	Reserved

Seite 4

Reserved Reserved Reserved Reserved Reserved Reserved Humidity Broadcast [not implemented yet] Broadcast Broadcast Temperature Broadcast [not implemented yet] Broadcast Time Broadcast [not implemented yet] Reserved Broadcast LED Animation Broadcast LED HSI Reserved ? Vendor Specific Vendor Specific

Vendor Specific

NOP

Reserved

Module	Туре	ADDR	Function	Values
Kha-bgt-audio	Device	00	Select audio source/destination	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Device	01	Bluetooth connection trigger	1=trigger once
Kha-bgt-audio	Device	02	Select power-on audio source/destination	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	03	Preset 0 enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	04	Preset 0 mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	05	Preset 1 enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	06	Preset 1 mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	07	Preset 2 enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	08	Preset 2 mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	09	Preset 3 enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	0A	Preset 3 mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	0B	Preset 4 enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	0C	Preset 4 mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	0D	Preset 5 enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	0E	Preset 5 mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	0F	Preset 6 enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	10	Preset 6 mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	11	Preset 7 enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	12	Preset 7 mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	13	Preset 8 enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	14	Preset 8 mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	15	Preset 9 enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	16	Preset 9 mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	17	Preset A enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	18	Preset A mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	19	Preset B enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	1A	Preset B mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	1B	Preset C enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	1C	Preset C mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	1D	Preset D enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	1E	Preset D mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	1F	Preset E enabled	0 = Off, 1= On
Kha-bgt-audio	Preset	20	Preset E mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-audio	Preset	21	Preset F enabled	0 = Off, 1= On

Kha-bgt-audio	Preset	22	Preset F mode	0=AUXA, 1=AUXB, 2=AUXC, 3=AUXD
Kha-bgt-dark	Preset	00	Preset 0 enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	01	Preset 0 mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	02	Preset 1 enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	03	Preset 1 mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	04	Preset 2 enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	05	Preset 2 mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	06	Preset 3 enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	07	Preset 3 mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	80	Preset 4 enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	09	Preset 4 mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	0A	Preset 5 enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	0B	Preset 5 mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	0C	Preset 6 enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	0D	Preset 6 mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	0E	Preset 7 enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	0F	Preset 7 mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	10	Preset 8 enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	11	Preset 8 mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	12	Preset 9 enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	13	Preset 9 mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	14	Preset A enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	15	Preset A mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	16	Preset B enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	17	Preset B mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	18	Preset C enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	19	Preset C mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	1 <b>A</b>	Preset D enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	1B	Preset D mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	1C	Preset E enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	1D	Preset E mode	0=Send Off, 1=Send On
Kha-bgt-dark	Preset	1E	Preset F enabled	0 = Off, 1= On
Kha-bgt-dark	Preset	1F	Preset F mode	0=Send Off, 1=Send On
Kha-bgt-guru	Device	00	Send to device id	0x00-0xFF
Kha-bgt-guru	Device	01	Stats request interval	0x01-0xFF (min)   0x00 = Off

Kha-bgt-hsi	Device	00	Send to device id	0x00-0xFF
Kha-bgt-hsi	Preset	01	Preset 0 enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	02	Preset 0 hue	0x00-0xFF
Kha-bgt-hsi	Preset	03	Preset 0 saturation	0x00-0xFF
Kha-bgt-hsi	Preset	04	Preset 0 intensity	0x00-0xFF
Kha-bgt-hsi	Preset	05	Preset 1 enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	06	Preset 1 hue	0x00-0xFF
Kha-bgt-hsi	Preset	07	Preset 1 saturation	0x00-0xFF
Kha-bgt-hsi	Preset	80	Preset 1 intensity	0x00-0xFF
Kha-bgt-hsi	Preset	09	Preset 2 enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	0A	Preset 2 hue	0x00-0xFF
Kha-bgt-hsi	Preset	0B	Preset 2 saturation	0x00-0xFF
Kha-bgt-hsi	Preset	0C	Preset 2 intensity	0x00-0xFF
Kha-bgt-hsi	Preset	0D	Preset 3 enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	0E	Preset 3 hue	0x00-0xFF
Kha-bgt-hsi	Preset	0F	Preset 3 saturation	0x00-0xFF
Kha-bgt-hsi	Preset	10	Preset 3 intensity	0x00-0xFF
Kha-bgt-hsi	Preset	11	Preset 4 enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	12	Preset 4 hue	0x00-0xFF
Kha-bgt-hsi	Preset	13	Preset 4 saturation	0x00-0xFF
Kha-bgt-hsi	Preset	14	Preset 4 intensity	0x00-0xFF
Kha-bgt-hsi	Preset	15	Preset 5 enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	16	Preset 5 hue	0x00-0xFF
Kha-bgt-hsi	Preset	17	Preset 5 saturation	0x00-0xFF
Kha-bgt-hsi	Preset	18	Preset 5 intensity	0x00-0xFF
Kha-bgt-hsi	Preset	19	Preset 6 enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	1 <b>A</b>	Preset 6 hue	0x00-0xFF
Kha-bgt-hsi	Preset	1B	Preset 6 saturation	0x00-0xFF
Kha-bgt-hsi	Preset	1C	Preset 6 intensity	0x00-0xFF
Kha-bgt-hsi	Preset	1D	Preset 7 enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	1E	Preset 7 hue	0x00-0xFF
Kha-bgt-hsi	Preset	1F	Preset 7 saturation	0x00-0xFF
Kha-bgt-hsi	Preset	20	Preset 7 intensity	0x00-0xFF
Kha-bgt-hsi	Preset	00	Preset 8 enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	00	Preset 8 hue	0x00-0xFF

Kha-bgt-hsi	Preset	01	Preset 8 saturation	0x00-0xFF
Kha-bgt-hsi	Preset	02	Preset 8 intensity	0x00-0xFF
Kha-bgt-hsi	Preset	03	Preset 9 enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	04	Preset 9 hue	0x00-0xFF
Kha-bgt-hsi	Preset	05	Preset 9 saturation	0x00-0xFF
Kha-bgt-hsi	Preset	06	Preset 9 intensity	0x00-0xFF
Kha-bgt-hsi	Preset	07	Preset A enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	08	Preset A hue	0x00-0xFF
Kha-bgt-hsi	Preset	09	Preset A saturation	0x00-0xFF
Kha-bgt-hsi	Preset	0A	Preset A intensity	0x00-0xFF
Kha-bgt-hsi	Preset	0B	Preset B enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	0C	Preset B hue	0x00-0xFF
Kha-bgt-hsi	Preset	0D	Preset B saturation	0x00-0xFF
Kha-bgt-hsi	Preset	0E	Preset B intensity	0x00-0xFF
Kha-bgt-hsi	Preset	0F	Preset C enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	10	Preset C hue	0x00-0xFF
Kha-bgt-hsi	Preset	11	Preset C saturation	0x00-0xFF
Kha-bgt-hsi	Preset	12	Preset C intensity	0x00-0xFF
Kha-bgt-hsi	Preset	13	Preset D enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	14	Preset D hue	0x00-0xFF
Kha-bgt-hsi	Preset	15	Preset D saturation	0x00-0xFF
Kha-bgt-hsi	Preset	16	Preset D intensity	0x00-0xFF
Kha-bgt-hsi	Preset	17	Preset E enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	18	Preset E hue	0x00-0xFF
Kha-bgt-hsi	Preset	19	Preset E saturation	0x00-0xFF
Kha-bgt-hsi	Preset	1A	Preset E intensity	0x00-0xFF
Kha-bgt-hsi	Preset	1B	Preset F enabled	0 = Off, 1= On
Kha-bgt-hsi	Preset	1C	Preset F hue	0x00-0xFF
Kha-bgt-hsi	Preset	1D	Preset F saturation	0x00-0xFF
Kha-bgt-hsi	Preset	1E	Preset F intensity	0x00-0xFF
Kha-bgt-kaox	Device	00	Send to device id	0x00-0xFE
Kha-bgt-kaox	Preset	01	Preset 0 enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	02	Preset 0 mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	03	Preset 1 enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	04	Preset 1 mode	0=Off, 1=Low, 2=Gradient, 3=Full

Kha-bgt-kaox	Preset	05	Preset 2 enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	06	Preset 2 mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	07	Preset 3 enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	08	Preset 3 mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	09	Preset 4 enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	0A	Preset 4 mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	0B	Preset 5 enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	0C	Preset 5 mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	0D	Preset 6 enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	0E	Preset 6 mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	0F	Preset 7 enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	10	Preset 7 mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	11	Preset 8 enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	12	Preset 8 mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	13	Preset 9 enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	14	Preset 9 mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	15	Preset A enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	16	Preset A mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	17	Preset B enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	18	Preset B mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	19	Preset C enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	1 <b>A</b>	Preset C mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	1B	Preset D enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	1C	Preset D mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	1D	Preset E enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	1E	Preset E mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-kaox	Preset	1F	Preset F enabled	0 = Off, 1= On
Kha-bgt-kaox	Preset	20	Preset F mode	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-bgt-main	Device	00	Shutdown time out	0x00-0xFF (sec)
Kha-bgt-power	Device	00	Button 0 node dev id	0x01-0xEF   Off
Kha-bgt-power	Device	01	Button 0 node reg addr	0x00-0xEE   Off
Kha-bgt-power	Device	02	Button 1 node dev id	0x01-0xEF   Off
Kha-bgt-power	Device	03	Button 1 node reg addr	0x00-0xEE   Off
Kha-bgt-power	Device	04	Button 2 node dev id	0x01-0xEF   Off
Kha-bgt-power	Device	05	Button 2 node reg addr	0x00-0xEE   Off

Kha-bgt-power	Device	06	Button 3 node dev id	0x01-0xEF   Off
Kha-bgt-power	Device	07	Button 3 node reg addr	0x00-0xEE   Off
Kha-bgt-power	Preset	80	Preset 0 enabled	0 = Off, 1= On
Kha-bgt-power	Preset	09	Preset 0 Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	0A	Preset 0 Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	0B	Preset 0 Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	0C	Preset 0 Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	0D	Preset 1 enabled	0 = Off, 1= On
Kha-bgt-power	Preset	0E	Preset 1 Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	0F	Preset 1 Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	10	Preset 1 Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	11	Preset 1 Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	12	Preset 2 enabled	0 = Off, 1= On
Kha-bgt-power	Preset	13	Preset 2 Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	14	Preset 2 Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	15	Preset 2 Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	16	Preset 2 Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	17	Preset 3 enabled	0 = Off, 1= On
Kha-bgt-power	Preset	18	Preset 3 Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	19	Preset 3 Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	1A	Preset 3 Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	1B	Preset 3 Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	1C	Preset 4 enabled	0 = Off, 1= On
Kha-bgt-power	Preset	1D	Preset 4 Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	1E	Preset 4 Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	1F	Preset 4 Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	20	Preset 4 Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	21	Preset 5 enabled	0 = Off, 1= On
Kha-bgt-power	Preset	22	Preset 5 Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	23	Preset 5 Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	24	Preset 5 Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	25	Preset 5 Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	26	Preset 6 enabled	0 = Off, 1= On
Kha-bgt-power	Preset	27	Preset 6 Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	28	Preset 6 Button 1	0=Off, 1=On, 2=Unchanged

Kha-bgt-power	Preset	29	Preset 6 Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	2A	Preset 6 Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	2B	Preset 7 enabled	0 = Off, 1= On
Kha-bgt-power	Preset	2C	Preset 7 Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	2D	Preset 7 Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	2E	Preset 7 Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	2F	Preset 7 Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	30	Preset 8 enabled	0 = Off, 1= On
Kha-bgt-power	Preset	31	Preset 8 Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	32	Preset 8 Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	33	Preset 8 Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	34	Preset 8 Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	35	Preset 9 enabled	0 = Off, 1= On
Kha-bgt-power	Preset	36	Preset 9 Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	37	Preset 9 Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	38	Preset 9 Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	39	Preset 9 Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	3 <b>A</b>	Preset A enabled	0 = Off, 1= On
Kha-bgt-power	Preset	3B	Preset A Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	3C	Preset A Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	3D	Preset A Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	3E	Preset A Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	3F	Preset B enabled	0 = Off, 1= On
Kha-bgt-power	Preset	40	Preset B Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	41	Preset B Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	42	Preset B Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	43	Preset B Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	44	Preset C enabled	0 = Off, 1= On
Kha-bgt-power	Preset	45	Preset C Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	46	Preset C Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	47	Preset C Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	48	Preset C Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	49	Preset D enabled	0 = Off, 1= On
Kha-bgt-power	Preset	4A	Preset D Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	4B	Preset D Button 1	0=Off, 1=On, 2=Unchanged

Kha-bgt-power	Preset	4C	Preset D Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	4D	Preset D Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	4E	Preset E enabled	0 = Off, 1= On
Kha-bgt-power	Preset	4F	Preset E Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	50	Preset E Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	51	Preset E Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	52	Preset E Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	53	Preset F enabled	0 = Off, 1= On
Kha-bgt-power	Preset	54	Preset F Button 0	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	55	Preset F Button 1	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	56	Preset F Button 2	0=Off, 1=On, 2=Unchanged
Kha-bgt-power	Preset	57	Preset F Button 3	0=Off, 1=On, 2=Unchanged
Kha-bgt-preset	Device	00	Button 0 preset code	0x00-0x0F   0xFF
Kha-bgt-preset	Device	01	Button 1 preset code	0x00-0x0F   0xFF
Kha-bgt-preset	Device	02	Button 2 preset code	0x00-0x0F   0xFF
Kha-bgt-preset	Device	03	Button 3 preset code	0x00-0x0F   0xFF
Kha-bgt-rainbow	Device	00	Send to device id	0x00-0xFE
Kha-bgt-rainbow	Preset	01	Preset 0 enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	02	Preset 0 anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	03	Preset 0 anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	04	Preset 0 anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	05	Preset 1 enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	06	Preset 1 anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	07	Preset 1 anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	80	Preset 1 anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	09	Preset 2 enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	0A	Preset 2 anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	0B	Preset 2 anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	0C	Preset 2 anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	0D	Preset 3 enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	0E	Preset 3 anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	0F	Preset 3 anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	10	Preset 3 anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	11	Preset 4 enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	12	Preset 4 anim speed	0x00-0xFF

Kha-bgt-rainbow Kha-bgt-rainbow	Preset Preset	13 14	Preset 4 anim width Preset 4 anim enabled	0x00-0xFF 0 = Off, 1= On
Kha-bgt-rainbow	Preset	15	Preset 5 enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	16	Preset 5 anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	17	Preset 5 anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	18	Preset 5 anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	19	Preset 6 enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	1A	Preset 6 anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	1B	Preset 6 anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	1C	Preset 6 anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	1D	Preset 7 enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	1E	Preset 7 anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	1F	Preset 7 anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	20	Preset 7 anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	21	Preset 8 enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	22	Preset 8 anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	23	Preset 8 anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	24	Preset 8 anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	25	Preset 9 enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	26	Preset 9 anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	27	Preset 9 anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	28	Preset 9 anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	29	Preset A enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	2A	Preset A anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	2B	Preset A anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	2C	Preset A anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	2D	Preset B enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	2E	Preset B anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	2F	Preset B anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	30	Preset B anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	31	Preset C enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	32	Preset C anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	33	Preset C anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	34	Preset C anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	35	Preset D enabled	0 = Off, 1= On

Kha-bgt-rainbow	Preset	36	Preset D anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	37	Preset D anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	38	Preset D anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	39	Preset E enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	3A	Preset E anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	3B	Preset E anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	3C	Preset E anim enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	3D	Preset F enabled	0 = Off, 1= On
Kha-bgt-rainbow	Preset	3E	Preset F anim speed	0x00-0xFF
Kha-bgt-rainbow	Preset	3F	Preset F anim width	0x00-0xFF
Kha-bgt-rainbow	Preset	40	Preset F anim enabled	0 = Off, 1= On
Kha-gateway-usb	Device	00	Print Proto	0=Off, 1=On
Kha-gateway-usb	Device	01	Print Human	0=Off, 1=On
Kha-led-ikea-node	Device	00	LED Selection	0=Off, 1=Low, 2=Gradient, 3=Full
Kha-led-ikea-node	Device	01	Show Identification	1=trigger once
Kha-led-ikea-node	Device	02	LED Amount	0x00-0xFF
Kha-led-ikea-node	Device	03	LED Orientation	0 = None, 1 = Vertical, 2 = Horizontal
Kha-led-ikea-node	Device	04	LED Low Cut	0x00-0xFF
Kha-led-ikea-node	Device	05	Animation Location	0x00-0xFF
Kha-led-strip	Device	00	LED Selection	0=Off, !0=Full
Kha-led-strip	Device	01	Amount	0-240 Leds
Kha-led-strip	Device	02	Communication	0 = APA102, 1 = WS2814
Kha-led-strip	Device	03	Intensity Max	0x00-0xFF
kha-relay-2x3-node	Device	00	Socket 0 enabled	0=Off, 1=On
kha-relay-2x3-node	Device	01	Socket 1 enabled	0=Off, 1=On
kha-relay-2x3-node	Device	02	Socket 2 enabled	0=Off, 1=On
kha-relay-2x3-node	Device	03	Socket 3 enabled	0=Off, 1=On
kha-relay-2x3-node	Device	04	Socket 4 enabled	0=Off, 1=On
kha-relay-2x3-node	Device	05	Socket 5 enabled	0=Off, 1=On
kha-relay-2x3-node	Device	06	Socket 0 power-off timer	0x01-0xFF (min)   0x00 = Off
kha-relay-2x3-node	Device	07	Socket 1 power-off timer	0x01-0xFF (min)   0x00 = Off
kha-relay-2x3-node	Device	80	Socket 2 power-off timer	0x01-0xFF (min)   0x00 = Off
kha-relay-2x3-node	Device	09	Socket 3 power-off timer	0x01-0xFF (min)   0x00 = Off
kha-relay-2x3-node	Device	0A	Socket 4 power-off timer	0x01-0xFF (min)   0x00 = Off
kha-relay-2x3-node	Device	0B	Socket 5 power-off timer	0x01-0xFF (min)   0x00 = Off

# ADDR ALLOCATED

ADDR	Group	Device	Comment
E1	00	Kha-gateway-usb	Connected to machariel.qnet
E0	00	Kha-gateway-usb	Connected to blacksheep.qnet
D1	00	Kha-remote	
D0	00	Kha-main	
C7	F5	Kha-led-strip	Desk
C6	F5	Kha-led-strip	Bed
C5	F4	kha-relay-2x3-node	South
C4	F4	kha-relay-2x3-node	North
C3	F1	Kha-led-ikea-node	East Oxberg
C2	F1	Kha-led-ikea-node	North Kallax
C1	F1	Kha-led-ikea-node	West Oxberg
C0	F1	Kha-led-ikea-node	South Kallax
ВС	F3	Kha-bgt-power	Strip
BB	00	Kha-bgt-preset	
BA	00	Kha-bgt-rainbow	
B9	00	Kha-bgt-hsi	
B8	00	Kha-bgt-kaox	
B7	00	Kha-bgt-guru	
B6	00	Kha-bgt-dark	
B5	F3	Kha-bgt-power	Misc
B4	F3	Kha-bgt-power	Projects
B3	F3	Kha-bgt-power	Lights
B2	F2	Kha-bgt-audio	Audio Out
B1	F2	Kha-bgt-audio	Audio In
B0	00	Kha-bgt-main	

## REGISTER SETUP

<b>Module</b> Kha-bgt-audio	Commands F2DF B1D50301000100000001000000000 B2D503010001000101010000000000 F2DE	Wipe
Kha-bgt-dark	B6DF B6D5000100 B6D5060100 B6DE	Wipe Preset 0 off: Off Preset 3 TV: Off Save
Kha-bgt-guru	B7DF B7D500FF B7D5010B B7DE	Wipe Broadcast to FF Broadcast every 11 minutes Save
Kha-bgt-hsi	B9DF B9D500FF B9D505010000FF B9D5090100FFFF B9D50D010000FF B9DE	Wipe Send to FF Preset 1 shutdown: no saturation, full intensity Preset 2 party: full saturation, full intensity Preset 3 tv: no saturation, full intensity Save
Kha-bgt-kaox	B8DF B8D500F1 B8D5010100 B8D5030101 B8D5050103 B8D5070101 B8D5090100 B8D50B0100 B8DE	Wipe Send to F1 Preset 0 off: Off Preset 1 shutdown: Low Preset 2 party: Full Preset 3 TV: Low Preset 4 tinker: Off Preset 5 pc: Off Save
Kha-bgt-main	B0DF B0D50096 B0DE	Wipe Timeout 150sec for shutdown Save

#### REGISTER SETUP

Kha-bgt-power F3DF Wipe

B3D5000000C400C504C500

B3D508010200000001020000000102000000(

B4D500C404C403C402C401

B4D508010000000001000000000101020202

B5D500C502C503C505C501

B5D5080100000000100000000101020202
BCD5000000000C700C600 Save
BCD5080100000000100000001010000010

F3DE

Kha-bgt-preset BBDF Wipe

BBD50002030405 Set presets to party, tv, tinker, pc

BBDE Save

Kha-bgt-rainbow BADF Wipe

BAD500FF Send to FF BAD50101000000 Preset 0 off: Off

 BAD50501000000
 Preset 1 shutdown: Off

 BAD50901FF2001
 Preset 2 party: Full

 BAD50D01000000
 Preset 3 TV: Off

 BAD51101000000
 Preset 4 tinker: Off

 BAD51501000000
 Preset 5 pc: Off

BADE Save

Kha-gateway-usb E0DF Wipe

 E0D5000100
 Print Proto

 E0DE
 Save

 E1DF
 Wipe

 E1D5000001
 Print Human

E1DE Save

Kha-led-ikea-node F1DF Wipe

C0D50000002020200 Set Amount, Orientation, Low Cut, Location C1D500000008010302 Set Amount, Orientation, Low Cut, Location C2D500000002020203 Set Amount, Orientation, Low Cut, Location C3D500000008010305 Set Amount, Orientation, Low Cut, Location

F1DE Save

## REGISTER SETUP

Kha-led-strip F5DF

Wipe Bed C6D500 000A01FF C7D500 00680097 Desk F5DE Save

kha-relay-2x3-node F4DF Wipe

Socket 1 label printer 20 minutes Socket 5 printer 20 minutes C5D50714 C5D50B14

F4DE Save

#### MPLab MCC Build

NVMNVMGenerate Flash APIsNVMNVMGenerate EEPROM APIsNVMNVMGenerate Signature Row APIs

Timer Delay

Timer RTC PIT Enable

Timer RTC RTC Clock Cycles 8
Timer RTC Periodic Interrupt Enable

UART UARTO 500000

UART UART0 Interrupt Driven

UARTUART0128 / 512SystemCLKCTRL24MhzSystemConfiguration BitsBootsize 32

System Configuration Bits Device used in single supply configuration

System Configuration Bits Watchdog Timeout Period 4k / 4s

System Interrupt Manager RXC System Interrupt Manager RSX

System Pins PA 0,1,3 USART0
System RSTCTRL Software Reset Enable

System WDT Lock

Building: Execute before build: ..\..\tools\kha-timestamp\kha-timestamp.bat

GCC Optimize -s

avr-ld: Additional: -Ttext=0x4000

add kha\_version.h

kha-relay-2x3

Node	ID	Box Label	<b>Box Color</b>	Connected	Timer
C4	0	1	Green	Light Couch	
C4	1	2	Green	LED Marquee	
C4	2	3	Green	NFL	
C4	3	1	Gray	Floppy	
C4	4	2	Gray	Projects	
C4	5	3	Gray	-	
C5	0	1	Yellow	Light PC	
C5	1	2	Yellow	Label Printer	0x14
C5	2	3	Yellow	Soundbar	
C5	3	1	Red	Lab Power Supply	
C5	4	2	Red	Light Bench	
C5	5	3	Red	Printer	0x14