APP COMMUNICATION COMMANDS

Revision: 3

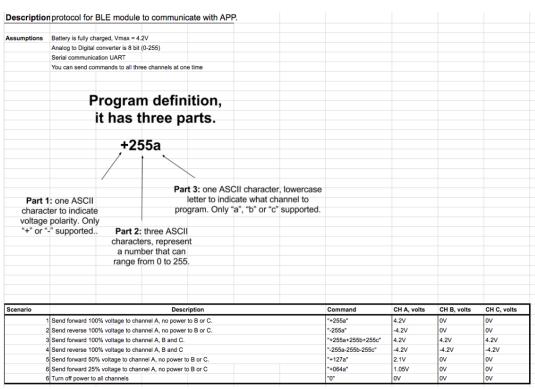
Date: March 19nd, 2019

Title: TenkaLabs CircuitCubes

1. Motor Driving Commands

Format: <+/-><000~255><a/b/c> <CR/LF>

Return: nil



Remark:

> <+/->: either + or -

<a/b/c>: either a, b, or c

<000~255>: 3-digit ASCII in range of 0 to 255

<CR/LF> is optional

Invalid command (e.g. +255d, -127, *255a) are ignored and status remain unchanged

➤ ASCII number greater than 255 is truncated (e.g. +258a = +002a)

2. Battery Status Command

Format:

Return: battery voltage in V (e.g. 3.75)

3. BLE Module Naming Command

a. Read BLE Module

Format: <n?>

Return: BLE Module Device Name

Remark: default <Tenka><4-digit ASCII for last 4 digit of MAC address>

b. Rename the device

Format: <n><20 byte ASCII><CR/LF>

Return: 1-byte Error code

Remark:

Device name string should compose of A~Z, a~z, 0~9, <space/-/_> only. No double-

byte character is allowed

Error codes

0: No error. Indicates successful completion of the operation

1: Invalid character(s) in device name string

4. Output Short Circuit Current & Overload Current Command

a. Read the settings of SCC & OC threshold value

Format: <thd get>

Return: <thd getXX,XX> (e.g. thd get30,10 3A SCC & 1A OC)

Remark: XX*100mA, XX*100mA

b. Set SCC & OC threshold value

Format: <thd setXX,XX> (e.g. thd set30,10)

Return: nil

REVISION HISTORY

<u>Date</u>	Rev	<u>Details</u>	<u>by</u>
2/14/2019	1	Update from BLE Module supplier	Richard
2/15/2019	2	Add 3a and 3b	Richard
2/22/2019	2a	Update 3b with return information	Richard
3/19/2019	3	Document the current setting commands under 4a, 4b	Richard