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Has anyone productised the Cable Replacement.   Answered

steven childerley
asked this on January 25, 2014, 20:57

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I am looking for a productised cable replacement. BLE to RS232 preferably using a BLE112 or BLE113.

Anyone out there making one?

0 people would like this to be answered.   Be the first!

Comments

Answer

Hi Steven,

Not to my knowledge. This kind of thing doesn't really lend itself to BLE technology due to the way connections are established and especially due to the relatively small throughput that is possible. A starting point (that is not quite transparent due to the connection procedure, but nearly so) would be the SPP-over-BLE example project:

- https://bluegiga.zendesk.com/entries/29185293-BGScript-spp-over-ble-AT-command-SPP-implementation-for-BLE

But I have not seen a productized version of this or anything similar before. If it is meant to be generic enough that the same script is used on both ends, then usually regular Bluetooth or some other wireless technology is preferable to BLE. Or, if it is meant to be integrated specifically into a certain environment, then the final implementation is usually not generic enough to be productized.

Jeff Rowberg
Bluegiga
Technologies

January 27, 2014, 19:00

Hmmm! I hope it's just a matter of time! I need something to plug it in externally. I am sure what you have here would do the job, however I need it off the shelf!

However thanks for pointing this out, there is a fair chunk of work here.

Steve.

steven childerley

January 27, 2014, 19:15

I'm developing a product with this for making a BLE version of our IMUs: http://www.lp-research.com/9-axis-imu-with-bluetooth-wireless-conne...

Not in production yet, though.

Performance is rather limited, I can only reach update rates of 30-50Hz. But that is enough for quite a few applications. All calculations that require a higher sampling rate (double integration of linear acceleration, gait detection etc.) runs on the local MCU. All communication uses a light-weight wrapper with a check-sum for detection of occasional transmission / buffering issues.

Let me know if you need any other info about this.

Klaus Petersen

February 23, 2014, 13:04

Hi Klaus,

The axis sensor looks like a nice product. However if I understand correctly your intention is to release a separate product providing serial replacement (plugging into an external serial port) over BLE. This product is probably (currently) a specialised component used by the axis sensor, however you intend to generalise it? Yes I would definitely be interested as it would enable me to get around the BT SIG listing fee.

Please let me know if I've got the wrong end of stick!

thanks, Steve.

steven childerley

February 23, 2014, 15:10

Hi Steve, yes, the current implementation is tied to our sensor. In principle this could be generalized to work with other applications as well, but probably would require some customization.

Support

Klaus Petersen

February 23, 2014, 16:08

Great - please keep me posted. When you're reaching something sellable you should post details on the LinkedIn BLE group.

So you'll have to cough up the $8K to get a listing :-(however I would hope you should recoup this cost as you'll save your customers having to do the same (externally mounted). For your sake it would be good some idea of volumes. The linkedIn group might be a good way todo this? however there are probably better ways.

steven childerley

February 23, 2014, 16:51

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