

Zimbra

klimov@mbari.org

Re: IMU Daughter Card Design

Mon, Oct 21, 2019 02:25 PM

From : Brian Kieft <bkieft@mbari.org>
Subject : Re: IMU Daughter Card Design
To : Denis Klimov <klimov@mbari.org>
Cc : Elecia White <elecia@logicalelegance.com>
Reply To : Brian Kieft <bkieft@mbari.org>

No sorry. see slack. I was mistaken and only bought one. We can grab another if necessary.

[@dklimov](#) on 1/23/18

Products Ordered
TDK InvenSense DK-20948 Bulk: ICM-20948 SmartMotion Development Kit
This product is noncancellable and nonreturnable.
Ordered: 1

From: "Denis Klimov" <klimov@mbari.org>
To: "bkieft" <bkieft@mbari.org>
Cc: "Elecia White" <elecia@logicalelegance.com>
Sent: Friday, October 18, 2019 3:34:22 PM
Subject: Re: IMU Daughter Card Design

Brian,
do you have a second one here?

Denis Klimov

From: "Brian Kieft" <bkieft@mbari.org>
To: "Denis Klimov" <klimov@mbari.org>
Cc: "Elecia White" <elecia@logicalelegance.com>
Sent: Thursday, October 17, 2019 1:36:44 PM
Subject: Re: IMU Daughter Card Design

Yes sorry I purchased the two eval boards.

From: "Denis Klimov" <klimov@mbari.org>
To: "Elecia White" <elecia@logicalelegance.com>
Cc: "bkieft" <bkieft@mbari.org>
Sent: Friday, October 11, 2019 10:06:35 AM
Subject: Re: IMU Daughter Card Design

Who purchased evaluation board?

Denis Klimov

From: "Elecia White" <elecia@logicalelegance.com>
To: "Denis Klimov" <klimov@mbari.org>, "Brian Kieft" <bkieft@mbari.org>
Sent: Friday, October 11, 2019 09:39:06 AM
Subject: Re: IMU Daughter Card Design

No. As far as I know you would be the person to see to that.

On 10/11/19 9:15 AM, Denis Klimov wrote:

Elecia,
I like how you draw a 5V note. Very cute!

Another question:
- was anything purchased for this so far? IMU chips etc? Or just evaluation board with IMU on it and that is it?

Thank you for sending this info.

Denis Klimov

From: "Elecia White" <elecia@logicalelegance.com>
To: "Denis Klimov" <klimov@mbari.org>
Sent: Thursday, October 10, 2019 04:03:23 PM
Subject: Re: IMU Daughter Card Design

On Oct 10, 2019, at 3:23 PM, Denis Klimov <klimov@mbari.org> wrote:

Elecia,
several questions:
- are you using level shifters now?

Yes. They are part of the demo board, see p14 of the hardware user guide attached to previous message.

- what is "current setup", pages 4-6 of Power Point? Is this your prototype?

Yes.

- could you send the photo of MB3 with your prototype connected to it?

Attached.

Thanks!

Denis Klimov

From: "Elecia White" <elecia@logicalelegance.com>
To: "Denis Klimov" <klimov@mbari.org>, "Brian Kieft" <bkieft@mbari.org>
Sent: Monday, October 7, 2019 8:23:11 AM
Subject: IMU Daughter Card Design

Here are some notes for how to design the daughter card.

Note that for the SmartMotion Hardware User Guide document, you need to look at Ver-C schematics. Those match my board and show the level shifters needed for the IMU to talk to the PIC.

If this is not sufficient, let me know.

-Elecia

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