

## E1/T1 Hardware Interface - Feature #3968

Feature # 3965 (In Progress): ICE40 based USB E1 adapter

Feature # 3967 (Resolved): design a custom board for the ICE40 E1 adapter

### find enclosure for ICE40 E1 board

04/30/2019 09:41 AM - laforge

<b>Status:</b>	Resolved	<b>Start date:</b>	04/30/2019
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	tnt	<b>% Done:</b>	100%
<b>Category:</b>			
<b>Target version:</b>			
<b>Spec Reference:</b>			
<b>Description</b>			
I would recommend Fischer aluminium enclosures such as those of the AKG series.			
In terms of the connectors:			
<ul style="list-style-type: none"><li>• RJ45 for E1, obviously</li><li>• USB-B (I would actually go for full-size-B for robustness)</li><li>• SMA for GPS Antenna connection</li></ul>			
Not sure if we need anything else. If there's a UART for debugging, we should of course go for the standard 2.5mm osmocom jack.			

### History

#### #1 - 07/20/2020 10:52 PM - tnt

- Status changed from New to In Progress

- Assignee set to tnt

- % Done changed from 0 to 70

Primary candidate is SZOMK AK-C-B-37

I got a couple of sample unit and they look nice and I like the silicone "seal" around the end panel which make it non-slip. I'm also hoping they can do custom holes in front panel at a reasonably cheap price even for low qty (like 20 units or maybe 50). I'll get a quote as soon as I finalized the front panel.

Fall back is fischerelektronik.de "AKG 55 24 80 SA" which is nearly identical, just a bit less wide and shorter. I'll try to make sure the PCB can easily be adapted for both. (obviously not the exact same PCB but so that the layout doesn't have to be re-made from scratch if we need to change)

#### #2 - 07/21/2020 08:20 AM - laforge

On Mon, Jul 20, 2020 at 10:52:41PM +0000, tnt [REDMINE] wrote:

I got a couple of sample unit and they look nice and I like the silicone "seal" around the end panel which make it non-slip. I'm also hoping they can do custom holes in front panel at a reasonably cheap price even for low qty (like 20 units or maybe 50). I'll get a quote as soon as I finalized the front panel.

I think we can definitely go for MOQ-50 units, possibly even 100.

Fall back is fischerelektronik.de "AKG 55 24 80 SA" which is nearly identical, just a bit less wide and shorter. I'll try to make sure the PCB can easily be adapted for both. (obviously not the exact same PCB but so that the layout doesn't have to be re-made from scratch if we need to change)

great, thanks.

#### #3 - 09/04/2020 08:44 AM - laforge

- Status changed from In Progress to Resolved

- % Done changed from 70 to 100

The Fischer AKG was not suitable due to the constrained with. [tnt](#) did the full enclosure integration and prototyping with his primary candidate SZOMK AK-C-B-37

**#4 - 09/04/2020 10:01 AM - tnt**

Note that if at some point we need to go back to the Fischer AKG, it shouldn't be "too" hard to fit it if we remove the support for the "GPIO" port of the front panel and move the serial connector to the other side of the USB.

So it wouldn't be a full re-layout ...