

# **SPRESENSE MAIN**

## **Add On Board**

### **Design guidelines**

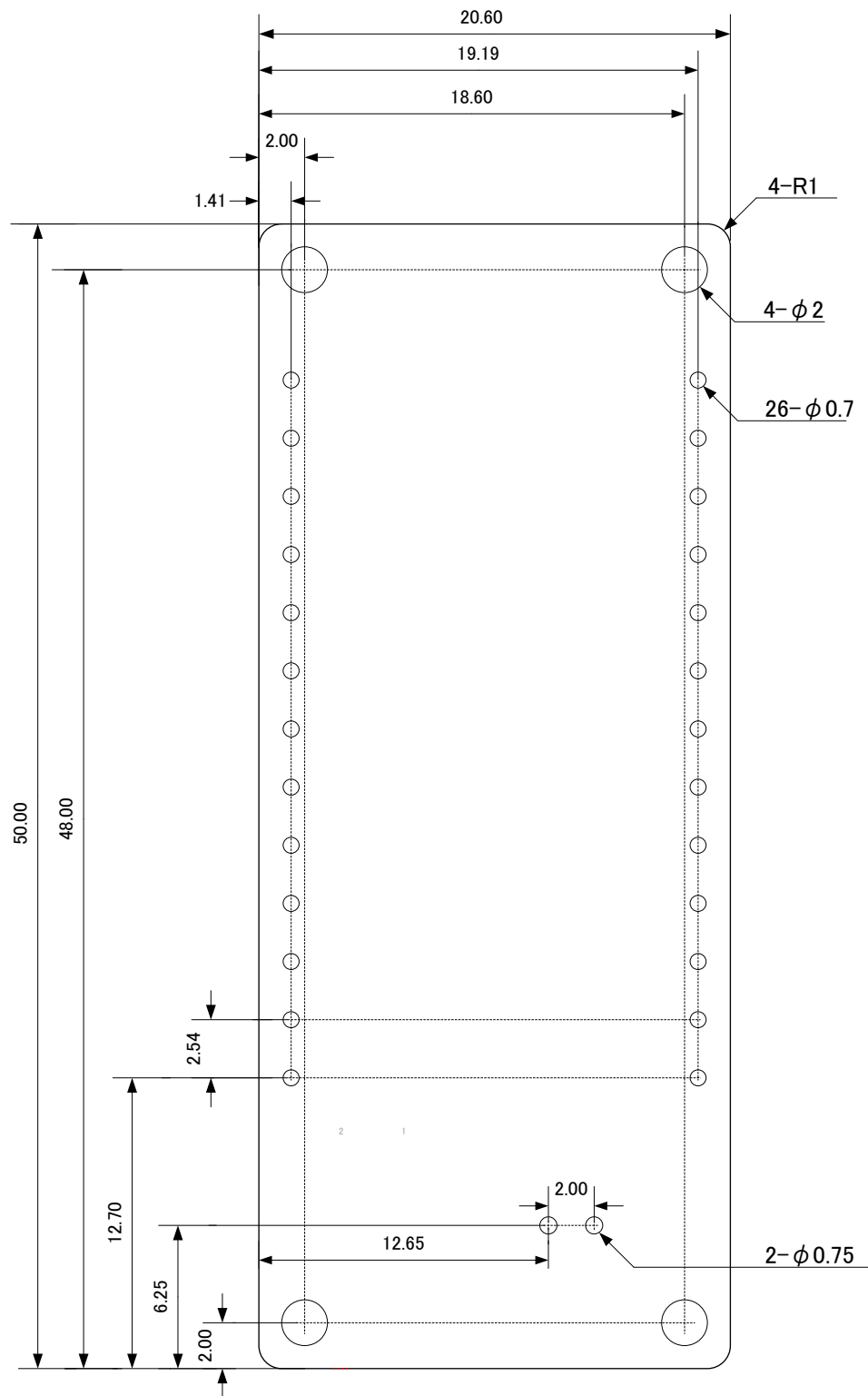
History

First edition

July 9, 2018

1. Board dimensions

Unit : mm

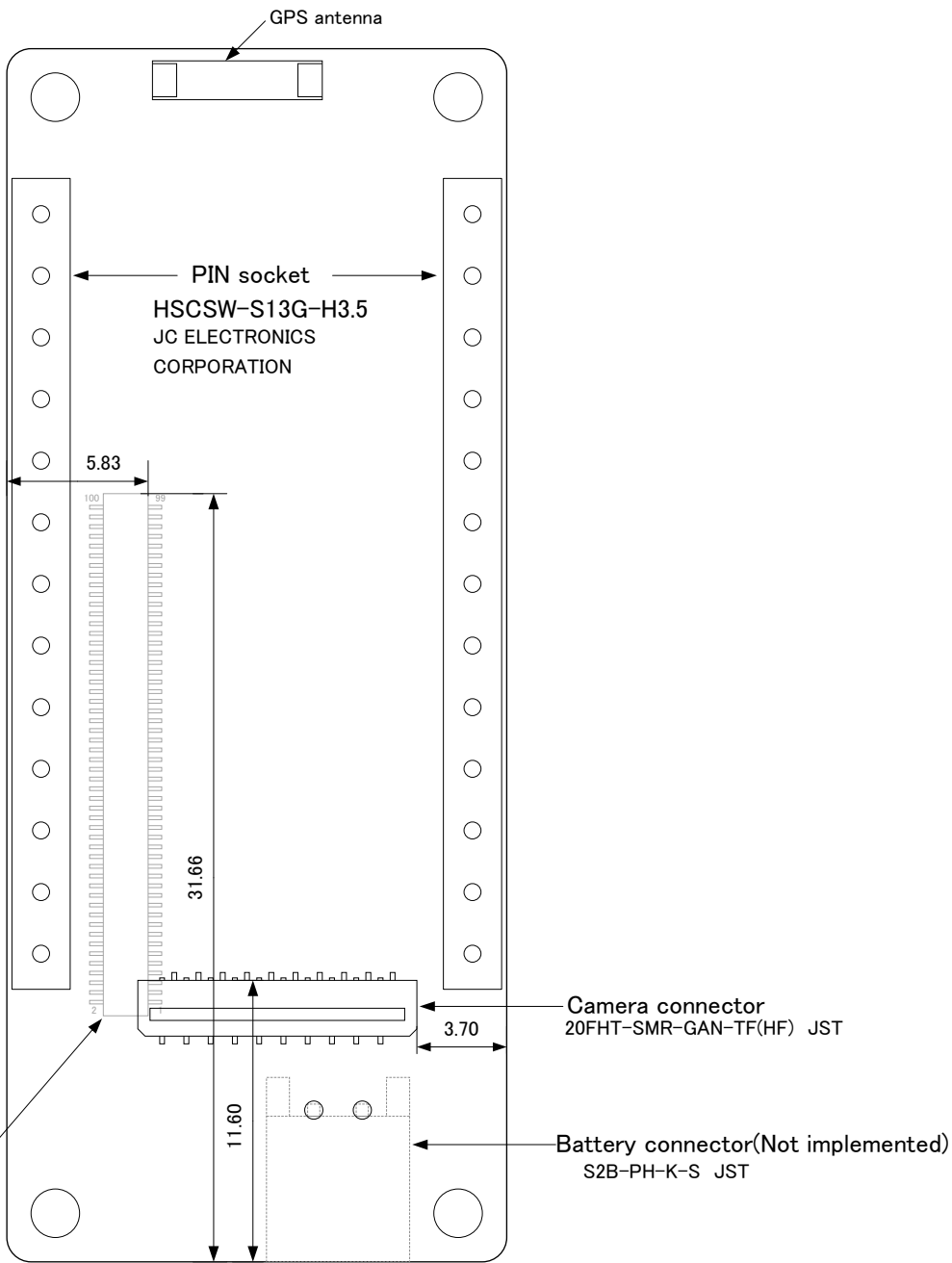


Note)

- Top View
- Board plate thickness  $t=1.6$
- Material FR-4
- Each hole of  $\phi 0.7$  has a pitch of 2.54 mm

2. Connector part position

Unit : mm



**BtoB connector**  
DF40C-100DP-0.4V(51) HIROSE ELECTRIC CO.,LTD  
Arrange on Bottom face

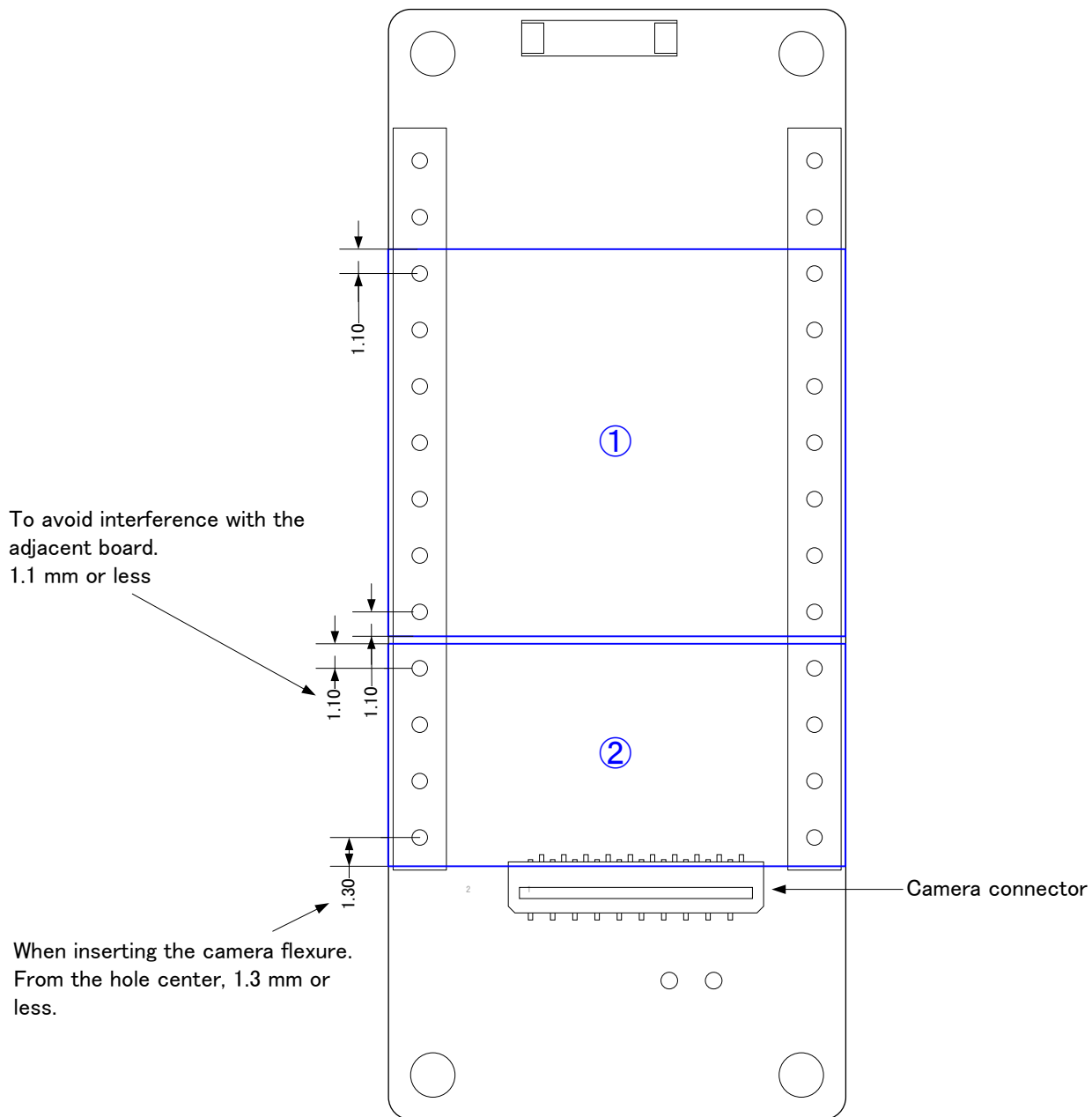
Note)  
•TOP VIEW

### 3. About the Add On Board Outline

Example) In case of board design like ①, ②

It shall be 1.1 mm or less from the substrate and edge pin center of (1) to the substrate outline (vertical direction).

From the board and end pin center of ②, make the bottom side of board 1.3 mm or less.

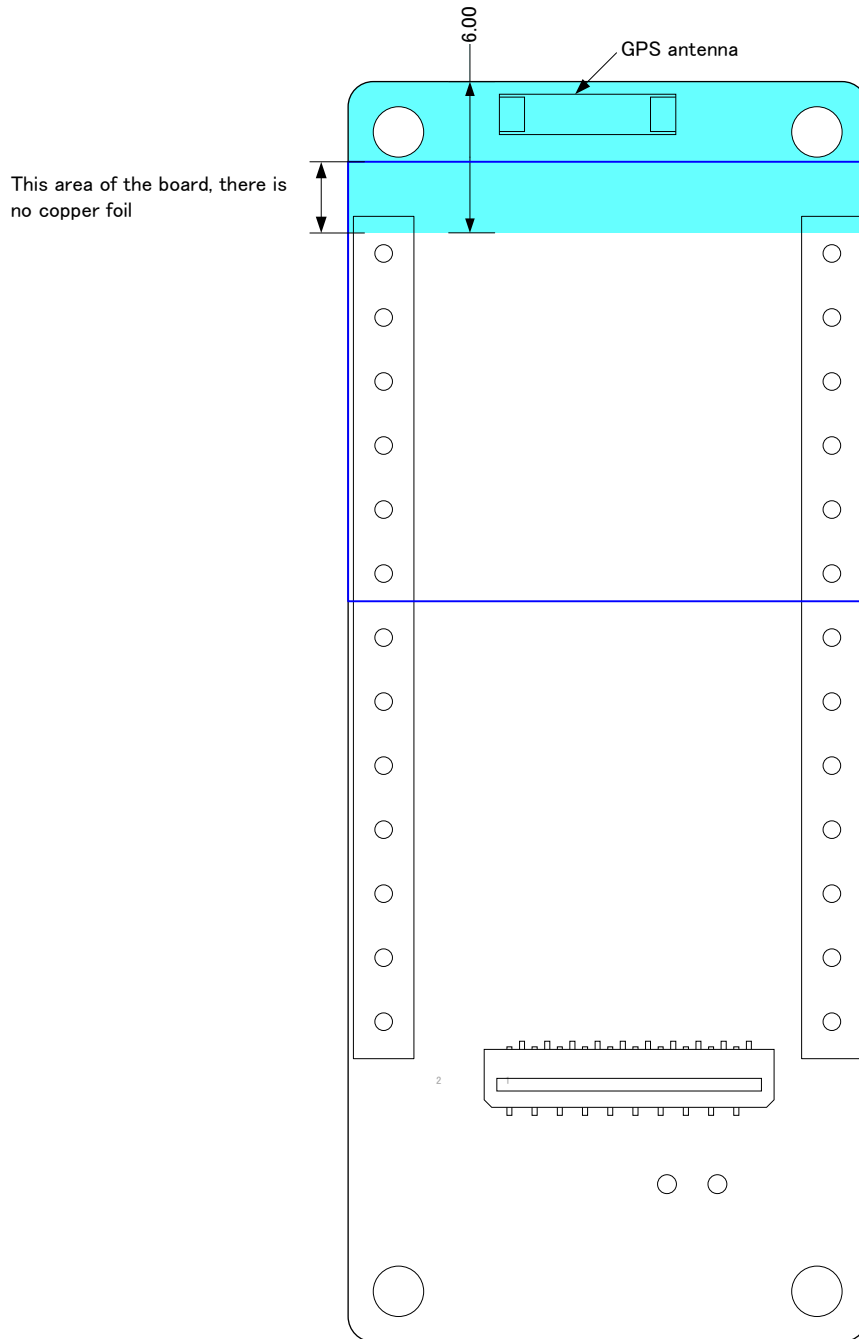


#### 4. Add On Board Pattern design attention point

In the case of substrate external design such as blue wire.

In the SPRESENSE MAIN Board, in order to secure the characteristics of the GPS antenna, We are pulling out all layer copper foil.

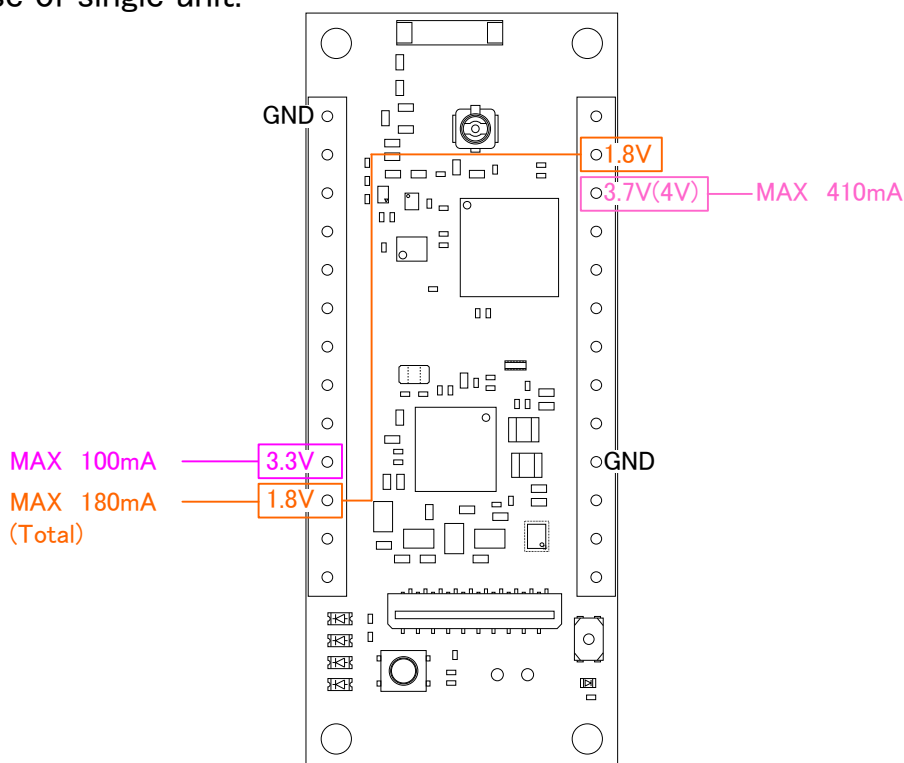
Therefore, in the case of the substrate outline covering this top, please remove all layers of copper foil.



## 5. Power supply terminal, allowable current

### ◎MAIN board. In case of single unit.

\*When USB cable is used



### ◎When combined with EXT board

\*When USB cable is used

