ZYMBIT ENGINEERING NOTE EN2020-0521	USING PERIMETER ADAPTER TYPE 8

This engineering note describes how to use Adapter Type 8.

The purpose of Adapter 8 is to connect Zymkey 4i perimeter detect circuits from the microUSB connector to a 5 pin header.

Adapter Type 8 can be used in place of Adapter Type 3 – the only difference is that Type 8 includes an optional external battery probe connection.

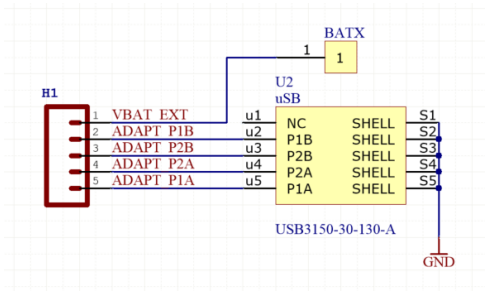
For additional information on using perimeter circuits in general refer to online documentation > https://community.zymbit.com/t/using-perimeter-detect/204

ADAPTER TYPE 8

Schematic Connections

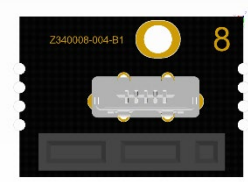
Pin 1 on the microUSB connector (U2) is not connected.

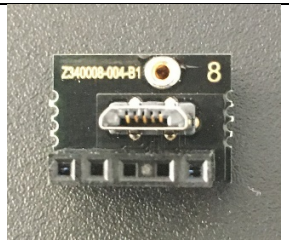
Pin 1 on the header (H1) is connected to the optional external battery probe (BATX)

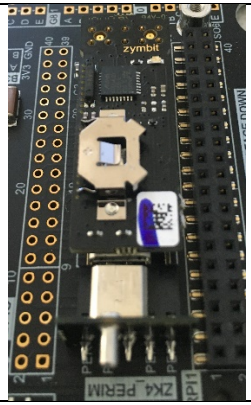


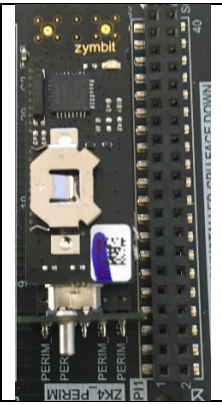
Physical Component

CAD, PCB, Fitted to ZK4



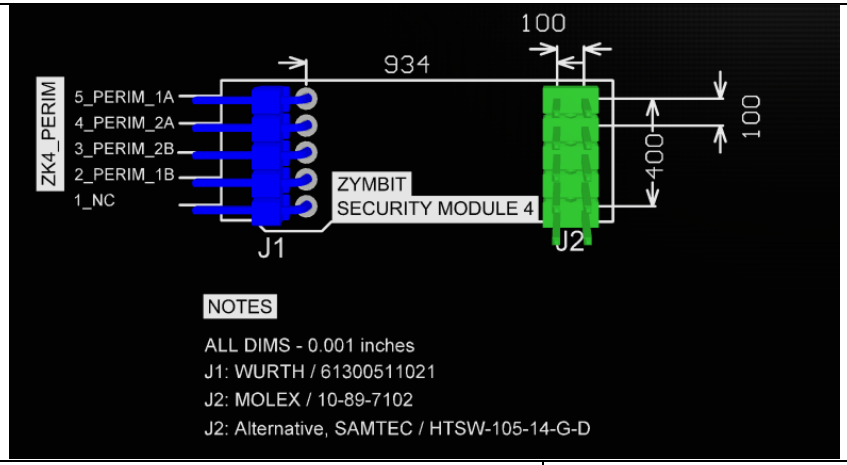






Mechanical Footprint

If you are designing your own PCB to accept a Zymkey4, we recommend the following connectors and mechanical placement.



Optional External Battery Probe

Adapter 8 contains a socket (BATX) that can be fitted with an optional push fit, spring probe that connects with the battery clip of the Zymkey4. [Harwin Probe P19-4021]

The spring probe allows an external battery to be connected, via the adapter. Typically a CR2032 or CR2 might be used for extended battery life.