

## ***Interactive comment on “Development of a New Centralized Data Acquisition System for Seismic Exploration” by Feng Guo et al.***

### **Anonymous Referee #2**

Received and published: 24 February 2020

Generally speaking, the manuscript described the system structure from both hardware and software, including the core technologies. As for the multiple use of the mentioned instrument, details of various application cases have also been given in the article. To be noted that, comparison with instruments found in the market has also implemented so it is clear to see the advantages of the CUGB-CS48DAS. However, there are still some shortcomings that need to be improved and revised. Given that, I recommend that this article should be accepted after a minor revision.

Details of revisions are as follows:

First of all, the abstract need to be revised to emphasize the technical improvements rather than giving detailed performance inspectors, since they are given in the article and the inspector appeared in the abstract is not a huge technical improvement. So I

recommend that the abstract is supposed to revise to highlight the key technology or the main advantage of the mentioned instrument.

As is described in 4.2 “Realization of Distributed Seismic Exploration Instrument”, the CUGB-CS48DAS can be extended to 96 channels by connecting with additional distributed acquisition units with PoE. Is it possible for a single CUGB-CS48DAS to connect with another CUGB-CS48DAS?

P3, “Basic performance parameters and functions of the acquisition system depend on the hardware circuit, which is essential for ensure the quality of the acquired data.” the word “ensure” should be “ensuring”.

P8, “The acquisition systems should be able meet project performance requirements.” is supposed to be “The acquisition systems should be able to meet project performance requirements.”

P9, “The Figure 9(c) and 8(d) are illustrations of apparent polarizability.” is supposed to be corrected as “The Figure 9(c) and 9(d) are illustrations of apparent polarizability.”

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Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss.,  
<https://doi.org/10.5194/gi-2019-26>, 2019.

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