

A suggestion of the local earthquake information network using an IT Kyoshin seismometer

Takamori Ito[1]; Kiyoshi Takano[2]

[1] ERI; [2] III/ERI, Univ. of Tokyo

In order to reduce the seismic disaster, it seems to be the usefulness to investigate the seismic vibration of our familiar buildings such as housing, companies, schools, etc. in small earthquake, examine the weak point and improve the earthquake resistance of these building effectively. For this purpose, we devised IT strong motion seismometer as a new type self install strong motion seismometer.

The IT strong motion seismometer system can realize improvement of the convenience and reduction of the cost by utilizing network technology. However, the sensors having practical performance are expensive now, and limiting on spreading IT strong motion seismometers. On this account we are developing a new acceleration sensor for IT strong motion seismometers. It has an ARM processor built-in in the model. It operates in real time and can output the result whereas a conventional model was limited to use as the pure digital sensor which a network sends out an AD conversion result to.

We can build a large-scale real-time earthquake information network easily by utilizing an operation function and the communication facility to have of the IT Kyoshin seismometer.