

## **Real Time Monitoring of a Live Volcano**

### **The Problem**

Industry often finds it necessary to monitor conditions in extremely hazardous locations. Sometimes it's a steel mill. Sometimes it's a live volcano. We mention monitoring volcanoes because one of our customers was recently tasked to do that very thing. When eruptions in Iceland can interrupt flight schedules and cargo service all over Europe it's useful to have some advanced warning about what to expect. But – thanks to lava flows, ash fall and earth tremors – installing and maintaining a data communications cable run on a live volcano would be a very expensive proposition.

### **The Solution**

Our customer made use of the cellular telephone network instead. The seismographs, GPS units and other devices at the reporting stations use small, local Ethernet networks to connect to our ER75i cellular routers, which then report the data via a cellular connection. The solution not only saves money, it relieves our customer of the need to spend a lot of time walking around on live volcanoes.

### **Why B&B Electronics?**

B&B Electronics can help you network just about anything, anywhere. Our rugged reliable devices are tough enough to handle harsh—and often unusual – environments and applications.

### **The Product**

ER75i Cellular Router

Standard equipment includes a USB port and Ethernet 10/100 interfaces. Optional ports are available.

-30 ° C to +60 ° C (-22° F to 140° F) operating temperature

Two SIM card ports – Users can use alternate cellular providers for system redundancy