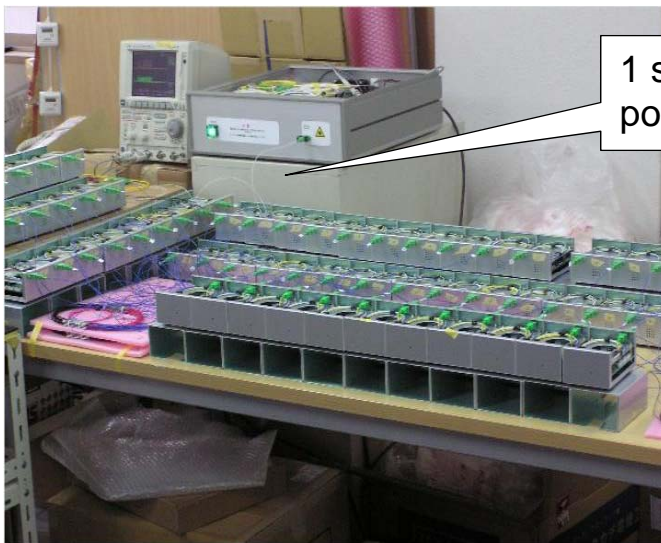


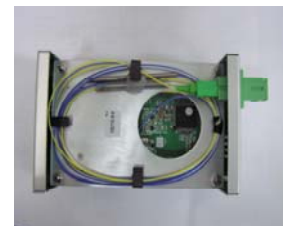
Sensor Network powered by fiber optic

**Just connect to normal telecommunication fiber network
Many kinds of sensor can be connected without metal cable**

- Utilizing existing fiber network
- Possible to cover tens of thousand area
- No local power supply due to power generation at sensor box by laser transmitted from remote
- Each sensor box drives sensor , processes signal, and sends back digital signal on optical fiber to remote base
- Sensor box is small and light-weight
- Many kinds of sensor can be connected, such as temperature and humidity, MEMS sensor is welcomed due to low-power consumption
- Also this can receive wireless signal into fiber network



1 single fiber can supply enough power to activate 100 sensors.



Each sensor box has :

- Laser diode to obtain power
- CPU to process sensor signal
- Sensor connection pin
- Laser to transmit signal back