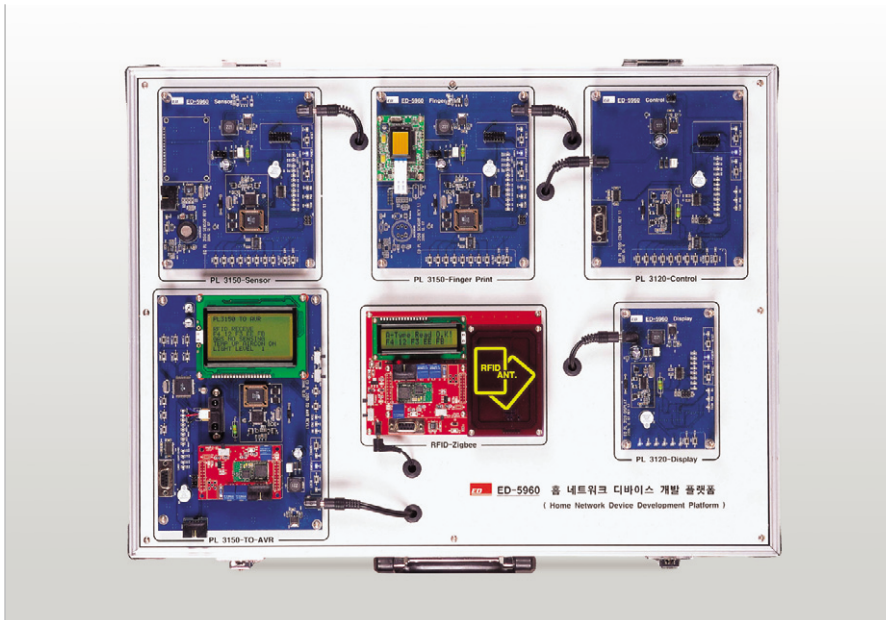


- Ubiquitous

LON DEVICE DEVELOPMENT KIT

New
ED-5960

- Home network based experiments suitable for ubiquitous computing
- Integrated ubiquitous device using ZigBee/RFID and finger print recognition
- Designed to help develop home network on the ground of Lon Protocol
- Equipped with each PLC module(Power Line Communication) for home network
- Related experiments through Neuron C and MICOM programming



> EXPERIMENTS

- Overall understanding of home network technology
- Programming for operations of each device
- Composition of home network scenarios
- Interoperable self installation
- Theories on the hardware/software related to home network Device
- Commissioning and network binding experiments using LonMaker

> SPECIFICATIONS

- Common Feature(per module)**

- » Interface : RS-232
- » Operating System : Protocol Scheduler
- » Communication : Power Line Communication
- » Application Program : Neuron C

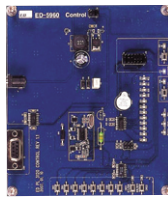
- General Characteristics**

- » Module Dimension : 575(W) x 225(H) x 460(D)mm
- » Input Voltage : 220V

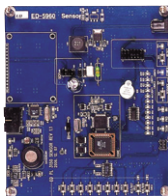
ACCESSORIES

- MiniEVK Compiler CD : 1ea
- Adaptor for Power Line Communication : 5ea
- User's Guide : 1 copy

Experiments Module

**ED-5960-1**
PL3120 Control

- GAS, CDS and TEMP DATA output control
- Adjustment of actuator's range through control of the input data's level
- Processor : PL3120 Transceiver
- Memory : EEPROM 0.5kB, SRAM 2kB, external 64kB

**ED-5960-2**
PL3150 Sensor

- Serves to read the GAS, CDS and LIGHT DATA through AVR, and send them to UART PL3150; and deliver them to each device through NV
- Processor : PL3150 Transceiver, ATMEGA8
- Memory : EEPROM 0.5kB, SRAM 2kB, external 64kB Flash

**ED-5960-3**
PL3150 Finger Print

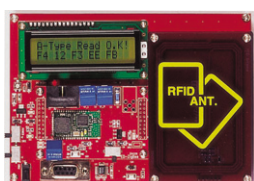
- Finger print recognition using the Finger Print Sensor module
- Indicates the status of finger print recognition's process
- Executes Access Control Program through finger print recognition
- Processor : PL3150 Transceiver, ATMEGA8
- Memory : EEPROM 0.5kB, SRAM 2kB, External 64kB Flash

**ED-5960-4**
PL3150 TO-AVRM

- ATMEGA128 in use
- LCD DISPLAY IR Sensing by the changes in NV INPUT, NV_SW ON/OFF output by SW INPUT
- Executes Access Control Program by receiving RFID READ DATA through ZigBee
- Processor : PL3150 Transceiver, ATMEGA8
- Memory : EEPROM 0.5kB, SRAM 2kB, external 64kB Flash

**ED-5960-5**
PL3120 DISPLAY

- Displays the status of operation by GGAS, CDS, TEMP NV_SW ON/OFF
- Displays the status of operation by IR Sensing, SW NV_SW ON/OFF
- Displays Access Control SW ON/OFF by the data proceeded by RFID and finger print recognitions
- Processor : PL3120 Transceiver, ATMEGA8
- Memory : EEPROM 0.5kB, SRAM 2kB, external 64kB

**ED-3120-ZB**
RFID READ ZigBee

- Detects the RFID CARD and displays a proper code serial; then sends the data to PL3150 TO-AVR module through ZigBee
- 13.56MHz RFID Reader's sensing distance : 100mm
- ISO/IEC 14443 Type A, Type B
- Processor : AT89C51(8051), ZigBee module(CC 2420)