

# BaseBand LSI compliant with HD-PLC inside

## BU82204MWV

### ●General Description

BU82204MWV is a baseband LSI compliant with HD-PLC inside standard. It has built-in Media Access Controller and PHY Controller compliant with HD-PLC inside standard.

Integrated AFE and transmit/receive filter required for communication facilitate the module design. A built-in application CPU can mount higher-level protocols and/or application software in addition to PLC communication protocol.

### ●Key Specifications

■ 3.3V input voltage range:	3.0V to 3.6V
■ 1.5V input voltage range:	1.45V to 1.55V
■ Transmit amplitude:	1.5Vpp (Max)
■ Receive amplitude:	3.2Vpp (Max)
■ Standby current:	30μA (Typ)
■ Operating temperature range:	-40°C to +85°C

### ●Package

UQFN88MV0100

W(Typ) x D(Typ) x H(Max)  
10mm x 10mm x 1.0mm

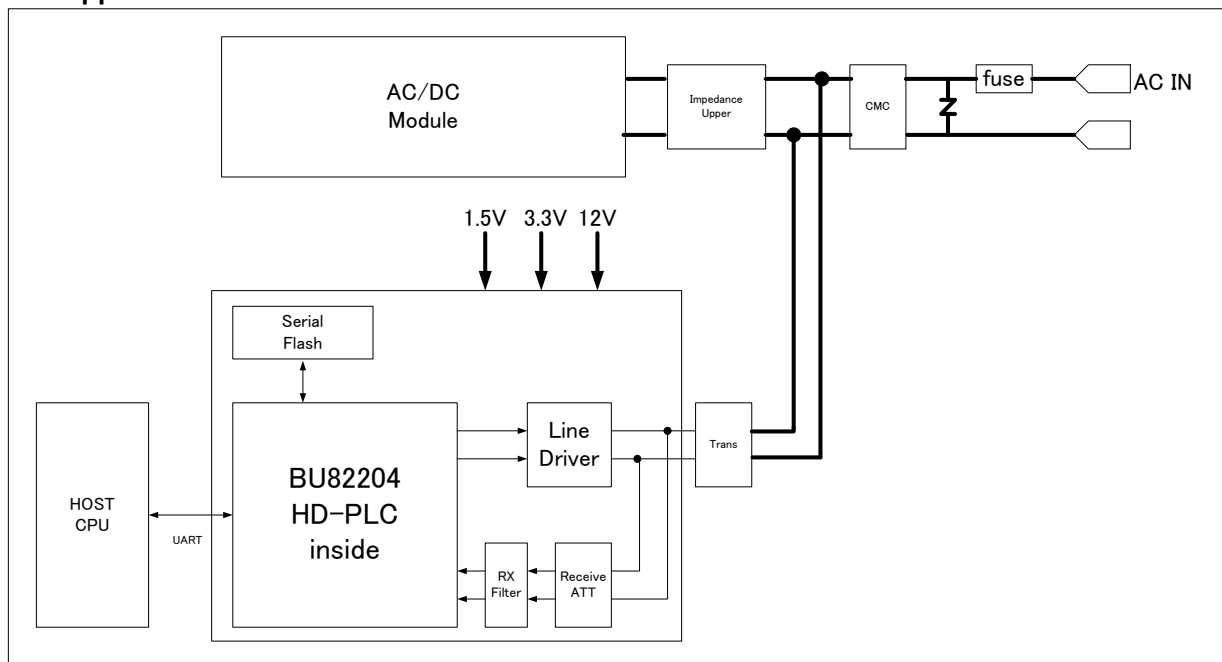
### ●Features

- HD-PLC inside Media Access Controller
- HD-PLC inside PHY Controller
- ARM Core
- Cache Controller
- Serial Flash Controller
- Various peripherals (UART, SPI, PWM, I2C)
- TX-DAC
- RX-DAC

### ●Applications

- Smart Home (HEMS, White Goods, LED Lighting etc.)
- Smart Community (BEMS, Equipment of Office and Industrial)

### ●Typical Application Circuit



●Contact us : <https://www.rohm.com/web/global/contactus>

●HD-PLC special site : <http://www.rohm.co.jp/web/japan/hdplc>

