**BaseBand LSI compliant with HD-PLC inside**

**BU82204MWV**

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**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.

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**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

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**Applications**

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

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**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

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**Package**

UQFN88MV0100

W(Typ) x D(Typ) x H(Max)

10mm x 10mm x 1.0mm

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**HD-PLC special site**

http://www.rohm.co.jp/web/japan/hdplc