



OM13062

I/O Handler LPCXpresso board with Link2 On Board Debug

Demo board description

The LPCXpresso LPC11U37H board is an extended variant of the standard LPCXpresso V2 board design, designed to allow evaluation of the I/O Handler functionality available on the LPC11U37HFBD64. The I/O Handler hardware engine that can be used to add performance, connectivity and flexibility to system interfaces such as UART, I²C, and I²S with no or very low additional CPU load and can off-load intensive functions like DMA transfers in hardware. Software libraries for multiple I/O handler applications are available from www.lpcware.com/ioh/

Features

- On-board LPC-Link2 based debug probe, based on NXP LPC43xx MCU; compatible with LPCXpresso IDE out-of-the-box, and with other tool-chains via optional ARM CMSIS-DAP and Segger J-Link firmware download
- Debug connector to allow debug of target MCU via an external probe
- Can be configured to act as a standalone probe to allowing debugging of an external board
- Tri-color LED, ISP and WAKE buttons
- Connector for target MCU's USB device peripheral
- MCU pins available on standard LPCXpresso/mbed expansion connector (board bottom side)
- Arduino connectors compatible with the "Arduino UNO" platform (board top side)
- P3 allows measurement of current of all target side circuitry
- Micro SD card slot
- UART connector, 6-pin FTDI cable (TTL-232R-3V3) compatible
- IOH I²C expander card with eight LEDs
- DALI expander card

Descriptive summary

Demo box contents include:

- LPC11U37H I/O Handler LPCXpresso board with Link2 On Board Debug (OBD)
- I²C expander daughter card and DALI daughter card
- IOH libraries downloadable at www.lpcware.com/ioh

Support links:

- [I/O Handler Library Download](#)
- [LPCXpresso Overview](#)
- [LPCXpresso Support](#)

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Related board:

- [OM11083- I²C Fm+ Development Board Kit OM13320](#)

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