

The OCA MicroDemo is a demonstration product being developed by OCA Alliance members Focusrite, Attero Tech, and Bosch. Its primary purpose is to prove that OCA can run well in lightweight hardware environments.

At this time, MicroDemo hardware development is complete, and software development is about 65% done.

When complete, the MicroDemo will meet minimum requirements for OCA compliance, and will provide a small set of OCA-controlled application functions as well.

The finished schematic diagrams, board layouts, and custom software for the MicroDemo will be open-source information downloadable from the OCA Alliance website at no charge, and usable on commercially acceptable licensing terms.

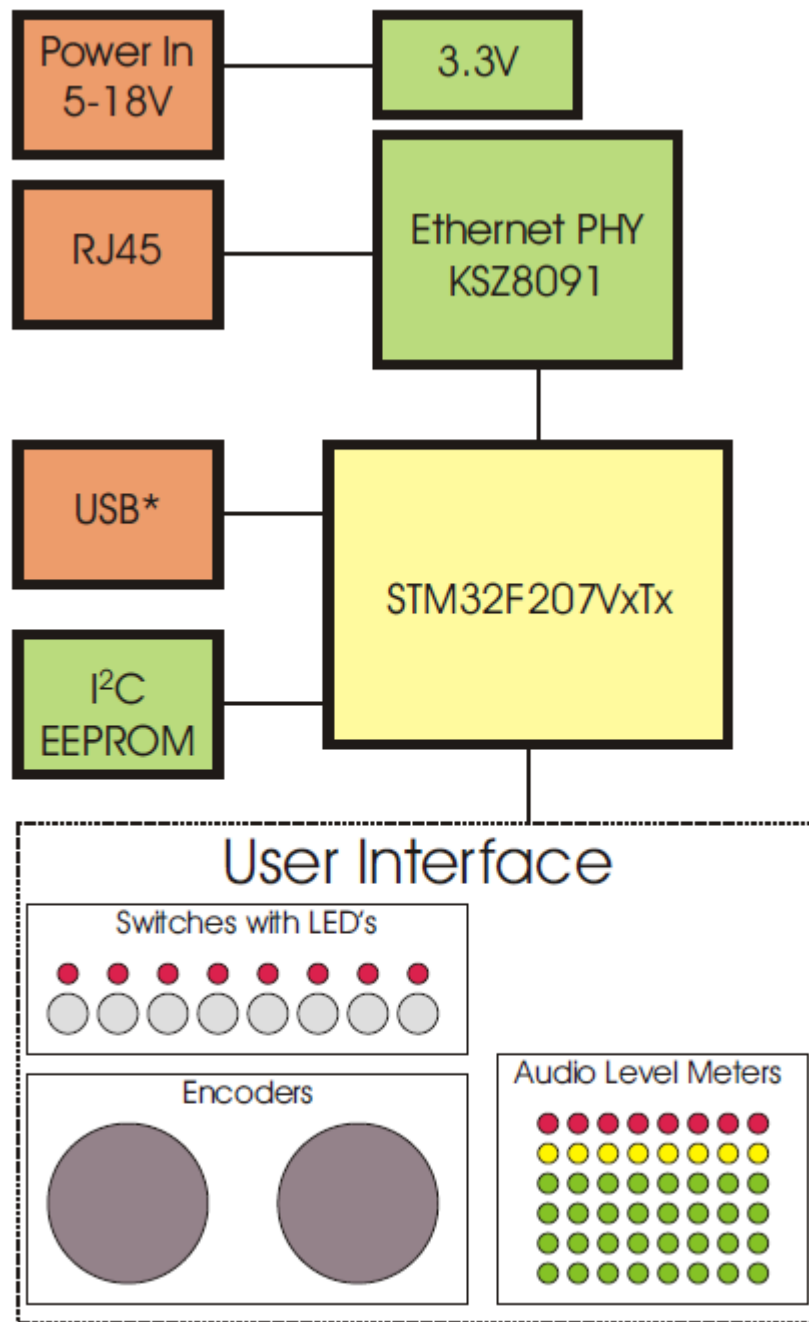
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### HARDWARE

Processor and memory:	ST Microelectronics <b>STM32F215VET6</b> : <ul style="list-style-type: none"><li>- 120 MHz Cortex M3</li><li>- 512 kB Flash memory</li><li>128 kB SRAM</li></ul>
Onboard peripherals:	10/100 baseT Ethernet <ul style="list-style-type: none"><li>(1) USB 2.0</li><li>(8) switches</li><li>(8) switch status LEDs</li><li>(2) shaft encoders</li><li>(8) 6-segment LED bargraph indicators</li><li>(2) state LEDs</li><li>(2) rotary shaft encoders</li><li>(2) isolated relay outputs, suitable for mains voltages</li></ul>
Parts cost:	About US\$30 in small quantities, PC board excluded

### SOFTWARE

Operating system:	<b>FreeRTOS</b> (open-source, modified GPL)
IP stack	<b>lwIP</b> (BSD license)
DNS-SD	<b>tinysvcmdns</b> from <a href="https://bitbucket.org/geekman/tinysvcmdns">https://bitbucket.org/geekman/tinysvcmdns</a> (open source, BSD license)
OCA implementation	Collaboratively-developed OCA implementation from Bosch, Attero Tech, & Focusrite. (open source, commercial-friendly license)



★ Not Required for Demo but provided for future work