

# vermon

## OEM Active USB Probes Development Kit



Developed to be fully modified and customized to meet your product requirements and needs.

### OEM ACTIVE USB PROBES SPECIFICATIONS

#### THREE AVAILABLE TRANSDUCERS

PA1-5	80 elts	p240 $\mu$ m	H14 mm
CLA6-2	128 elts	p450 $\mu$ m	H12 mm
LA10-2	128 elts	p300 $\mu$ m	H06 mm

#### HIGH PERFORMANCE ELECTRONICS

- > 128 pulsers / 64 AFE channels
- > Full control of TX and RX parameters per firing

#### HOUSING

- > Biocompatible, electrical safety compliant
- > IPX7 protection
- > Thermal and EMC management
- > 1 button | 2 LEDS
- > Light and compact

#### ENERGY

- > USB-C powered – battery operated
- > 1800 mAh battery operated
- > Charger included

#### FPGA BASED BEAMFORMER

- > Proprietary Firmware

#### DEVELOPMENT KIT

- > USB connectivity
- > Firmware and driver ready
- > Software source available to code sequences
- > Imaging modes demo: B-mode, Color Flow and Tissue Harmonics



#### VERMON

**Vernon** is leading the development and industrialization of state-of-the-art ultrasound solutions for medical and industrial applications.

**Vernon's** commitment is to innovate, design and manufacture advanced transducers and arrays with cutting-edge technology to support its customers' innovative ultrasound applications while strengthening their long-term market position with superior ultrasound imaging performances.

GET IN TOUCH  
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## OEM Active USB Probes Development Kit

A fully packaged ultrasound USB probes development kit solution for cardiology, abdominal, OB/GYN, vascular and superficial applications.

### A COMPREHENSIVE SOLUTION

#### MAIN APPLICATION FIELDS

- > Point of Care
- > Ultrasound guided surgery
- > Robotics
- > Artificial Intelligence based applications

#### ADDITIONAL CUSTOMIZATION

- > Full Vernon's transducer portfolio compatibility
- > Customized hardware to support your advanced sequencing for imaging and specific modes implementation requirements
- > Custom housing design and ergonomics

Vernon's USB Probes development kit is a fully packaged ultrasound probes solution **embedding 128 Hardware channels** with **embedded FPGA based beamforming firmware**.

There are **3 available configurations** covering the main applications:

- > a **phased array** for **cardiology** applications,
- > a **curved linear array** for **abdominal and OB/GYN** applications,
- > a **linear array** for **vascular and superficial** applications.

Delivered with an open software development kit enabling you to take control at a low level of the probes' embedded electronics. **You can program your own sequences and develop your imaging modes to support your applications requirements and performance needs.**

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