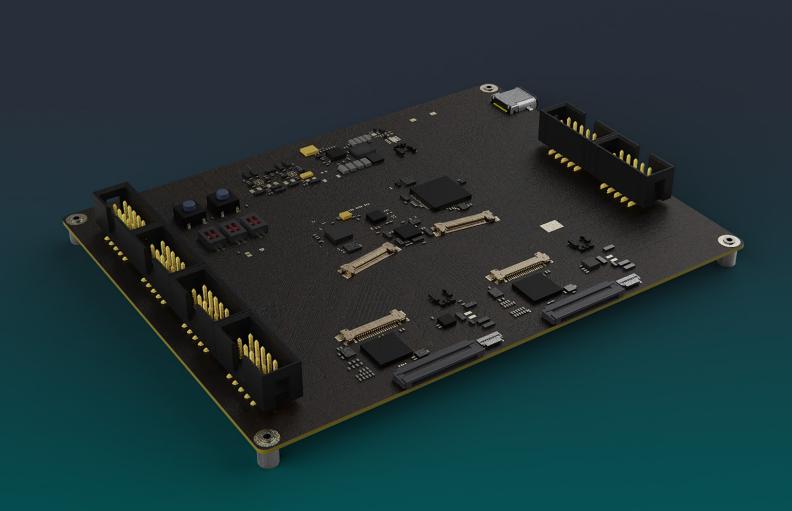
# MARS EV1

### AR Evaluation Kit

Built from the VX Modular Augmented Reality System



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## Create - Test - Debug

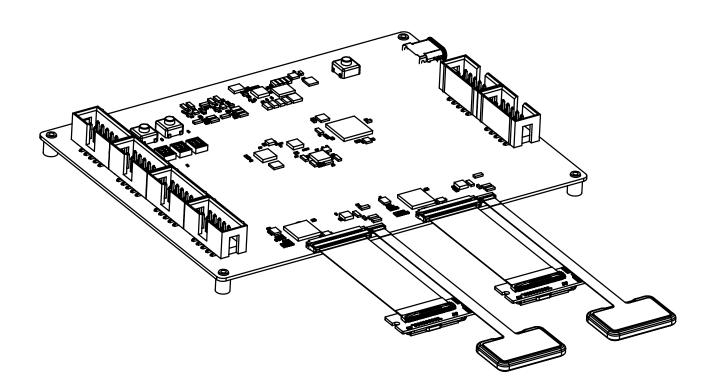
#### The Eval-Kit

The EV1 combines all the components of the MARS onto a single board and is a fully featured evaluation kit built to support VX customers in their product development.

The VX EV1-80001 Eval-Kit will work with any device that has a fully featured USB Type-C port. The CNED displays and sensors will enumerate automatically.

#### **Full System Breakout**

The kit includes all that is needed to evaluate sub-systems and validate functionality of the CNED, HBB Backlight, cameras and sensors. This kit can be used to program USB Billboard ID, DP-ALT mode, HMI functions, and HBB Backlight power optimization.



#### **Modular Design**

The EV1-80001 Evaluation kit is a single board that highlights the VX Modular Augmented Reality System (MARS) in a compact, ready to use setup. The Eval-Kit is a complete set of MARS boards in one with everything broken out. Developers can test and build everything needed for their system and applications.

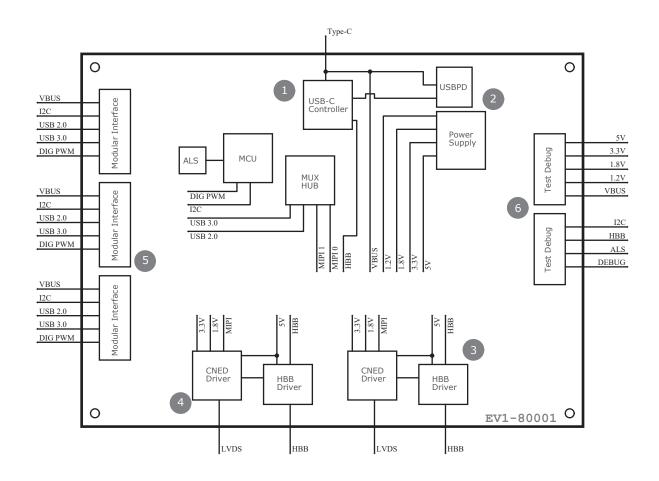
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#### What Is Included?

- EV1 Evaluation Board
- Two LCoS Microdisplays
- Two High-Brightness Backlights
- o FPC Cables
- Interface Cables
- USB Type-C Cable

#### **Optional Accessories**

- TRI-50032 CNED AR Displays
- Modular Interface Breakout Boards



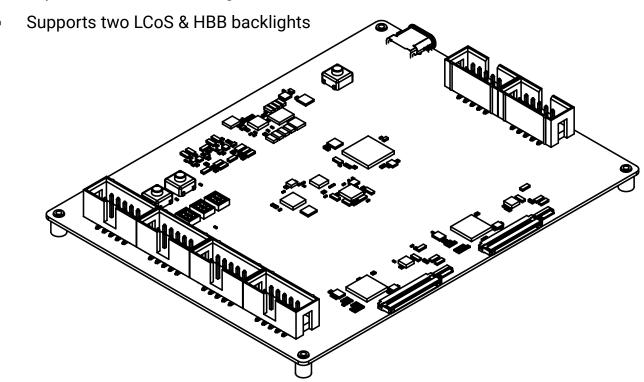
- 1 Type-C input and signal control
- ② USB-C Power Delivery
- 3 Right Eye display driver and control
- 4 Left Eye display driver and control
- 5 IDC headers for Modules
- 6 IDC headers for High-brightness Backlights

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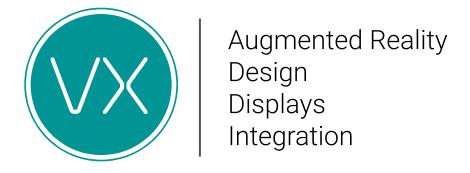
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#### **VX BlueShift Features**

- USB 3.1 Type-C DP-ALT Mode
- Auto Enumerate Plug-n-Play
- o Supports Windows 10, Android, & Linux
- Onboard MCU for Data Processing
- o Expandable Sensor Testing



Feature	Description	Typical	Units
Resolution	CNED display resolution	1920 x 1080	рх
Luminous Intensity	High-Brightness Backlight (HBB-50002)	3600	mcd
Type-C	USBPD 2.0 with ALT Mode	USB 3.1	-
DP-ALT	Displayport version support	1.2	-
Device Bandwidth	Maximum data rate for displays and modules combined	10	Gbit/s
Module Bandwidth	Maximum data rate for all modules combined	5	Gbit/s
Display Bandwidth	Maximum data rate for Displayport 1.2	8	Gbit/s



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