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## D2.1

# Prototype Board



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## 1. DOCUMENT INFORMATION

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<b>Deliverable Name</b>	Prototype Board
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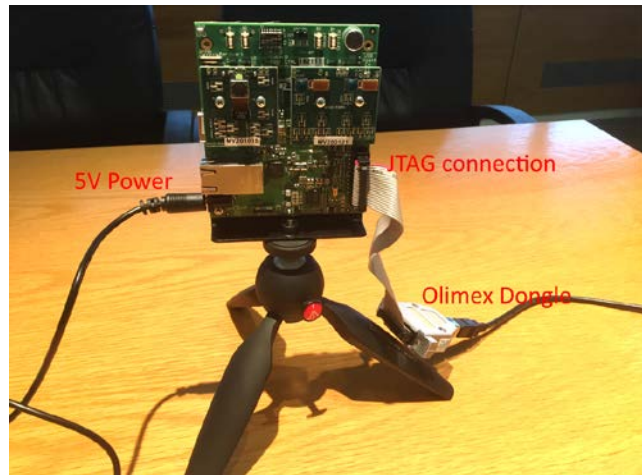
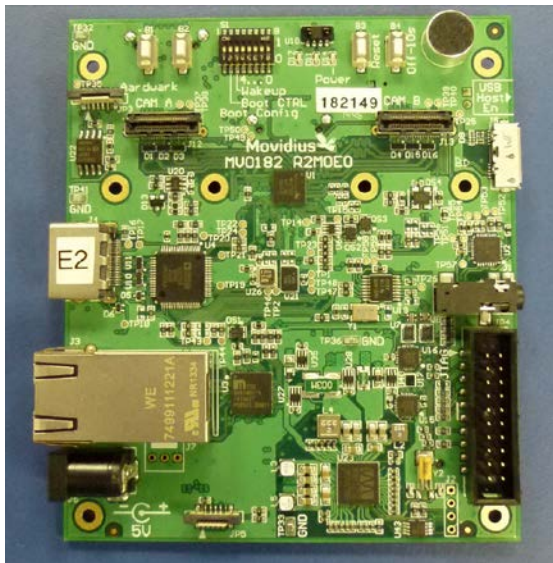
## **2. ABSTRACT**

In the DoW, 'Platform prototype' is a task of WP2 described as: "All software development (see WP3 below) will be initiated in month 1 thanks to existing development kits provided by the hardware partners. The main development kit contains the application processor (plus other components that will not be used in EoT). The image sensor will be connected to this kit through a COTS LDVS-to-MIPI converter. For WiFi and 3G/4G connectivity, miniature SDcards will be connected to the processor kit. These components and boards will be assembled in order to have a working prototype for each of the software partners, plus a fourth backup unit."

This brief report describes the aforementioned deliverable.

### 3. PROTOTYPE BOARD

The prototype board was delivered by partner Movidius in Month 1. Three units were delivered to partners UCLM and DFKI (units were physically delivered in the project kick-off meeting). Two of these units are being used by UCLM, the third one is being used by DFKI. A fourth back-up unit is being used by Movidius. The prototype board is the Movidius MV0182 R3 development board<sup>1</sup>. The board, pictured below, includes the core Myriad2 SoC, cameras and other ancillary components.



WiFi connectivity is added to the board through the TI CC3100 component. This is a chip optimized for the 'Internet of Things', released January 2015. The special camera from partner Awaiba is also to be added later on through purpose-designed interface logic.

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<sup>1</sup> Movidius MV0182 User Manual, v1.1, 2014.