

# **Product Change Notification**

PCN 4/2023

Refers to: VisionSOM-6ULL v1.1

Issue Date: August 2023

Effective Date: September 2023

Title: Replacing boot configuration resistors with electronic configuration (e-Fuses)

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### **Part Numbers Affected**

Board Models	Version	New Version
VisionSOM-6ULL	1.1	1.2

Notes:

- 1. The PCN covers VisionSOM-6ULL (SLS16) modules version with eMMC memory only. Modules with other Flash memories have not changed at all.
- 2. The ordering code of affected parts is:

**yy** = 04, 08, 16 or 32

## **Notification**

Pinout Compatibility 🗆	Revision Change 🖂	
Design Change	SW compatibility $\Box$	Other 🛛

#### Cause

Resistors configuring the processor's boot procedure limited the functionality of the selected GPIO (LCD\_DATAxx) lines, which complicated the design of the carrier board.

### **Notification Description**

1. The following lines of GPIO in modules VisionSOM-6ULL v 1.1 are equipped with pull-up (PU)/pulldown (PD) resistors:

GPIO line	Resistor value	PU/PD
LCD-DATA0	10k	PD
LCD-DATA1	10k	PD
LCD-DATA2	10k	PD
LCD-DATA3	10k	PD
LCD-DATA4	10k	PD
LCD-DATA5	10k	PU
LCD-DATA6	10k	PU
LCD-DATA7	10k	PD
LCD-DATA8	10k	PD
LCD-DATA9	10k	PD
LCD-DATA10	10k	PD
LCD-DATA11	10k	PU
LCD-DATA12	10k	PD
LCD-DATA13	10k	PU
LCD-DATA14	10k	PD
LCD-DATA15	10k	PD
LCD-DATA16	10k	PD
LCD-DATA17	10k	PD
LCD-DATA18	10k	PD

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LCD-DATA19	10k	PD
LCD-DATA20	10k	PD
LCD-DATA21	10k	PD
LCD-DATA22	10k	PD
LCD-DATA23	10k	PD

These resistors configured the boot procedure stored by default in internal ROM MPU memory.

In modules VisionSOM-6ULL v 1.2 all theses resistors are removed and boot configuration is stored in e-Fuse internal OTP MPU memory (instead of external resistors). Thanks to this user can freely use GPIO (LCD-DATAxx) in both direction without the need to use special solutions on the carrier board.

#### Impact on target application

Ad. 1. The module user can use the GPIO (LCD-DATAxx) line without any restrictions.

#### Workaround

None - unnecessary.

# **HW/SW Changes Requirements**

None.

