



# Connect Tech Inc.

## Embedded Computing Experts

[www.connecttech.com](http://www.connecttech.com)

# Product Change Notification

## *JCB Alternate Assemblies*

<b>PCN Number:</b>	CTIU-00041
<b>Revision:</b>	0.00
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# 1 Product Identification

## 1.1 Product Data

	Original Product	New Alternate Product
<b>Product Name</b>	GMSL Camera Platform	GMSL Camera Platform
<b>Part Numbers</b>	JCB002	JCB012, JCB013, JCB018
<b>Hardware Revision</b>	D and earlier	D and later
<b>Product Name</b>	Allied MIPI Camera Platform	Allied MIPI Camera Platform
<b>Part Numbers</b>	JCB005	JCB014, JCB015, JCB019
<b>Hardware Revision</b>	E and earlier	E and later
<b>Product Name</b>	FPD-Link III Camera Platform	FPD-Link III Camera Platform
<b>Part Numbers</b>	JCB006	JCB016, JCB017, JCB020
<b>Hardware Revision</b>	A and earlier	C and later

## 1.2 Means of Distinguishing Changed Products

<b>Part Number</b>	<input checked="" type="checkbox"/>	See table above
<b>Hardware Revision</b>	<input checked="" type="checkbox"/>	See table above
<b>Label</b>	<input checked="" type="checkbox"/>	Labels will be changed to match part number
<b>Other</b>	<input checked="" type="checkbox"/>	With some variants various components will be omitted from the assembly

## 2 Description and Reason of Change

AVL	<input type="checkbox"/>	Product Improvement	<input type="checkbox"/>
Material	<input type="checkbox"/>	BIOS Release	<input type="checkbox"/>
Assembly Process	<input type="checkbox"/>	Firmware Release	<input type="checkbox"/>
Assembly BOM	<input checked="" type="checkbox"/>	Datasheet / Manual	<input type="checkbox"/>
Testing	<input type="checkbox"/>	DFM	<input type="checkbox"/>
Manufacturing Site	<input type="checkbox"/>	Other	<input type="checkbox"/>
Equipment	<input type="checkbox"/>		

Due to industry wide component shortages, Connect Tech has designed an alternative assembly of several Jetson Camera Board (JCB) Products. The parts in question are used to implement an input power OR function, which will automatically select the POC (power over coax) source from either the external input connector or the JCB internal bus board-to-board (sourced from an AGX### carrier)

Three new options are now being offered for each JCB product

	<b>Auto Camera power - Industrial</b>	<b>Fixed External Camera power, Industrial</b>	<b>Fixed Internal Camera power, Industrial</b>	<b>Auto Camera power - Commercial</b>
GMSL	JCB002	JCB012	JCB013	JCB018
Allied MIPI	JCB005	JCB014	JCB015	JCB019
FPD-Link III	JCB006	JCB016	JCB017	JCB020

**Fixed external power:** the power OR circuitry has been replaced by passive comments which permanently connect the POC source to the external power connector

**Fixed internal power:** the power OR circuitry has been replaced by passive comments which permanently connect the POC source to the JCB board-to-board bus connector

Depending on the end user application, certain limitations may exist when using the internal power option:

<b>Product</b>	<b>Observations when using internal power source</b>
JCB013	Can handle only 2x AR0330 at maximum throughput and resolution
JCB015	No limitations
JCB017	Can handle only 4x IMX290 at maximum throughput and resolution

**Auto Power Commercial:** Auto power selection circuitry remains in place, however the major IC involved is only rated over the commercial temperature range of 0 to 70C

### 3 Impact of change (positive or negative) on fit, form, function & reliability

#### 3.1 Quality and Reliability

If the commercial temperature range option is chosen, care must be taken to ensure the ambient temperature doesn't exceed 70C.

#### 3.2 Software Compatibility

The alternate assemblies are fully compatible with drivers and software written for the original standard product part numbers.

#### 3.3 Hardware Compatibility

If proper system design is observed in terms of power source selection, the alternate assemblies are fully compatible.

#### 3.4 Mechanical Compatibility

There are no changes to size, shape, nor connector position.

### 4 Product / Revision Discontinuation

The JCB002, JCB005, JCB006 will continued to be offered for purchase, however they are presently subject to a long lead time.

### 5 Contact Information

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