



Product Change Notification

PCN No: 2025-06-13-01
Report Date: June 13, 2025
Subject: EVE2-29A Display Change

List of New Products:

EVE2-29A-IPS-BLH-TPN

Reason for Change:

Improved optical quality and brightness with new IPS displays (in-plane switching panel technology)

Schedule of Change:

Q3 2025

Product Change:

In line with Matrix Orbital's continual push to provide a superior product, our EVE2-29A-BLM-TPN module will now use IPS, high brightness displays, new part number: EVE2-29A-**IPS-BLH**-TPN.

The new EVE2A-29A-IPS-BLH-TPN display can draw up to an additional 50mW of power due to the increase of the backlight brightness. The backlight setting may be turned down using software. Hardware can also be modified from factory to set the backlight down. This option is available via custom order.

The new EVE2A-29A-IPS-BLH-TPN displays use a different driver IC which require different timing parameters:

	Old EVE Timing Specifications	New EVE Timing Specifications
DWIDTH	320	320
DHEIGHT	102	102
PIXVOFFSET	0	138
PIXHOFFSET	0	0
HCYCLE	408	376
HOFFSET	70	55
HSYNC0	0	8
HSYNC1	10	12
VCYCLE	262	265
VOFFSET	156	24
VSYNC0	0	8
VSYNC1	2	12
PCLK	8	6
SWIZZLE	0	0
PCLK_POL	0	1
HSIZE	320	320
VSIZE	102	240
CSPREAD	0	0
DITHER	1	1

Documentation Revision

Revision	Changes	Date	Author
1.1	Timing Difference	September 15, 2025	R Malinis
1.0	Initial Release	June 13, 2025	R Malinis

Contact Information:

Sales: sales@matrixorbital.ca

Approvals:

Design: **Henry Jakl (Design and Development Manager)**

Production: **Hideaki Hirata (Production Supervisor)**