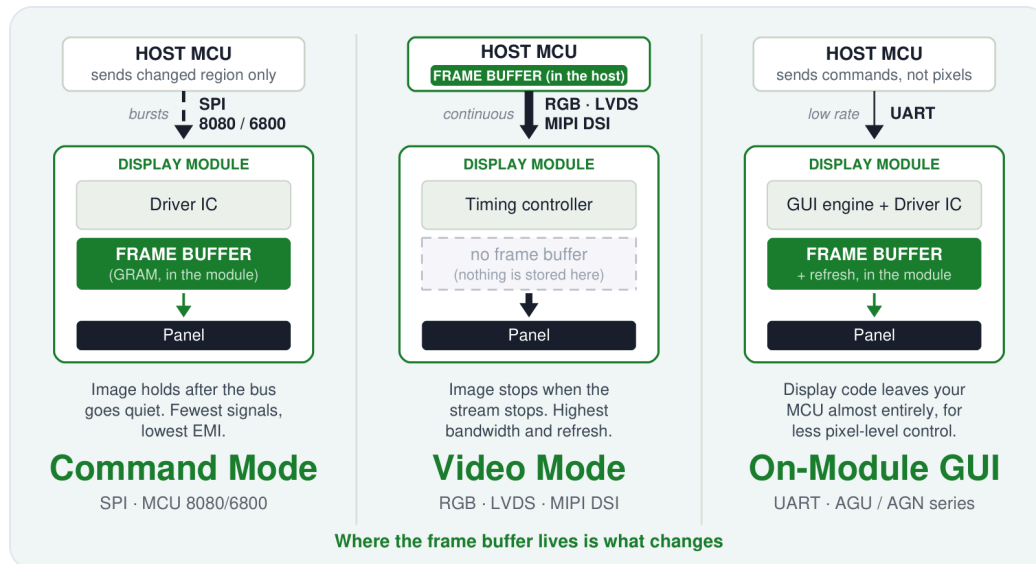




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DESIGN NOTE

Command Mode and Video Mode: Choosing a Display Interface



As embedded designs push higher resolutions onto smaller panels, the interface has become the decision that shapes the rest of the board. We would like to share a quick overview of the distinction that matters most when choosing one: whether the display holds its own image, or depends on your host to send it continuously.

Command Mode covers SPI and MCU 8080/6800 interfaces. The driver IC holds a frame buffer, so the image remains after communication stops, and only the region that changes needs redrawing. Fewer signals to route and lower EMI. The software is more involved.

Video Mode covers parallel RGB, LVDS and MIPI DSI. Your host streams pixels continuously and the image stops when the stream stops. Higher bandwidth and higher refresh rates, at the cost of more data lines and more complex control.

On-Module GUI uses UART. Rendering, frame buffer and refresh all happen inside the module, which takes display code out of your MCU almost entirely, in exchange for less control over the final pixel.

Orient Display stocks displays across all three architectures, from small SPI modules to LVDS and HDMI panels, alongside our AGU and AGN series over UART.

INTERFACE	SIZE / RESOLUTION	TOUCH	PART NUMBER
MCU / SPI	1.5", 240 x 240	None	AFR240240A0-1.5INTN
SPI + RGB	2.35", 320 x 480	None	AFR320480A0-2.35INTH
24-bit RGB	5.0", 800 x 480	Capacitive	AFY800480A1-5.0INTH-C
LVDS	7.0", 1024 x 600	Resistive	AFY1024600A0-7.0INTH-R
HDMI / USB	7.0", 1024 x 600	Capacitive	AFY1024600A2-7.0INTH-C-HDMI
UART	3.5", 320 x 240	Resistive	AGN320240A01-3.5N12NSH-R

We look forward to supporting your innovation with these display solutions. Please [contact us to discuss a custom project](#), or [browse our display list](#) to filter standard parts by interface.

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Orient Display

Orient Display USA

14925 SE Allen Road, Suite 203B, Bellevue, WA 98006, USA

Orient Display Canada

220 Royal Crest Court, Unit 6, Markham, ON L3R 9Y2, Canada

info@orientdisplay.com