

ABSTRACT**PRINT ENGINE CONTROLLER WITH DITHERING AND COMPOSITING CIRCUITRY**

A print engine controller for a pagewidth inkjet print head includes at least one integrated circuit which defines an input interface which is configured to receive data representing compressed page images. At least one decoder is connected to the input interface and is configured to decode data representing image planes that constitute the compressed page images. The at least one integrated circuit includes dithering and compositing circuitry which is configured to dither and compose decoded image data received from the, or each, decoder, the dithering and compositing circuitry being configured to apply one or more dither matrices to the decoded image data and to map at least dithered data to the printhead.

Figure 3