



LCD Controllers

CP2400/1/2/3 devices are fixed function LCD drivers that can also be used for expanding GPIO, timekeeping, and increasing available system RAM by up to 256 bytes. The device is controlled using direct and indirect internal registers accessible through the 4-wire SPI or 2-wire SMBus interface. All digital pins on the device are 5 V tolerant.

Product Matrix										
Part Number	LCD Segments	RAM (bytes)	I/O Pins	Serial Bus	Timers (16-bit)	Internal Osc.	Temp Range	Other	Package	Dev Kit
CP2400-GM	128	256	36	SPI	2	Yes	-40 to 85 °C	Ultra-low power mode	48-pin QFN	CP2400DK
CP2400-GQ	128	256	36	SPI	2	Yes	-40 to 85 °C	Ultra-low power mode	48-pin TQFP	CP2400DK
CP2401-GM	128	256	36	I2C	2	Yes	-40 to 85 °C	Ultra-low power mode	48-pin QFN	CP2401DK
CP2401-GQ	128	256	36	I2C	2	Yes	-40 to 85 °C	Ultra-low power mode	48-pin TQFP	CP2401DK
CP2402-GM	64	256	20	SPI	2	Yes	-40 to 85 °C	Ultra-low power mode	32-pin QFN	CP2400DK
CP2403-GM	64	256	20	I2C	2	Yes	-40 to 85 °C	Ultra-low power mode	32-pin QFN	CP2401DK