

## F28xxx – controlCARD



F2808 / F28044 shown here

ControlCARDs are a small 100 pin DIMM (Dual In Line “Memory Module”) style vertical plug-in board based on the TMS320 - F2808, F28044 (fixed point CPU) and F28335 (floating point CPU) Digital Signal Controller (DSC) devices. These controlCARDs have all the necessary “life support” circuitry (clock, supply LDO, decoupling, pull-ups,...etc) to provide reliable operation for the DSCs devices, and makes for a good HW reference design to use as is, or to modify as needed. This reference design is very robust and is meant for operation in noisy electrical environments, it includes the following features:

- Small size – 90 mm x 25 mm (3.5” x 1”)
- All GPIO, ADC and other key signal routed to gold edge connector fingers
- Extensive supply pin decoupling with L+C close to pins
- Clamping diode protection at ADC input pins
- Anti-aliasing filter (noise filter) at ADC input pins
- Ground plane
- Isolated UART communications using RS232 translator + ISO7221 isolators

Each controlCARD includes a “Hardware Developer’s Package”, a set of “soft collateral” files which makes deploying this technology very easy, these files include:

- Schematics
- Bill of materials (BOM)
- Gerber files to freely use or modify
- Pinout table showing all key signals at the 100 pin connector
- DIMM100 pin / socket mechanical details

### Availability:

Description	type	Item / part #	where to get it
F2808 controlCARD	HW	C2000-CC2808	contact TI
F28044 controlCARD	HW	C2000-CC28044	contact TI
F28335 controlCARD	HW	C2000-CC28335	contact TI
F2808 HW Developer’s pkg	soft	BH280xxHWdevPkg.zip	contact TI
F28044 HW Developer’s pkg	soft	BH280xxHWdevPkg.zip	contact TI
F28335 HW Developer’s pkg	soft	BH28335HWdevPkg.zip	contact TI

