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**Engineering Note**

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**Project:** DFEC

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**Subject:** Mapping between DFEC “device” and physical FPGAs, board type codes.

DFEC commands reference a “device” number from 0 to 15. A device is usually a single FPGA, except in the case of the DFEA daughterboards, where a single device is comprised of a serial chain of 5 FPGAs. In all cases, there is one configuration file per device. The table below shows all DFE daughterboard flavors and the Mixer board. The bottom row contains the board type code that is returned via the DFE slow monitor system (see engineering note 2000-01-31a).

If a device is shaded out, that means that there is NO physical device present on the board. No configuration file needs to be sent to the corresponding device. However, if the box is NOT shaded then there is a physical FPGA present and a configuration file *must* be downloaded to that device, even if it is described as “blank”.

	DFEA	CTOC	CTQD	CTTT	DFEF	DFES	FPSS	FPTT	STOV	STSX	Mixer
dev 0	Top DB serial chain	U3 "CFT L2" XCV600	U3 "CPS" XCV600	U3 "CTTT" XCV600	U3 "FPS" XCV1000E	U3 "FPS" XCV1000E	U3 "FPS L2" XCV600	U3 "FPTT" XCV600	U3 "L2 STT" XCV600	U3 "L2 STT" XCV600	U2 "DFE1_YP" XCS40XL-5PQ240C
dev 1	Bot DB serial chain	U5 "CPS L2" XCV600		U5 "blank" XCV600							U1 "DFE1_RB" XCS40XL-5PQ240C
dev 2		U1 "L1" XCV600	U1 "CFT" XCV600	U1 "blank" XCV400	U1 "FPS" XCV1000E	U1 "FPS" XCV1000E	U1 "FPS L1" XCV600	U1 "blank" XCV600	U1 "blank" XCV600	U1 "blank" XCV600	U10 "DFE1_OG" XCS40XL-5PQ240C
dev 3											U11 "DFE0_RB" XCS40XL-5PQ240C
dev 4											U19 "DFE0_OG" XCS40XL-5PQ240C
dev 5											U18 "DFE0_YP" XCS40XL-5PQ240C
dev 6											U31 "LKIN_1315" XCV50-6PQ240C
dev 7											U45 "LKIN_46" XCV50-6PQ240C
dev 8											U46 "LKIN_13" XCV50-6PQ240C
dev 9											U32 "LKIN_1012" XCV50-6PQ240C
dev 10											U47 "LKIN0" XCV50-6PQ240C
dev 11											U48 "BKP_LFTD" XCV50-6PQ240C
dev 12											U33 "LKIN_79" XCV50-6PQ240C
dev 13											U12 "BKP_DFE0RX" XCV50-6PQ240C
dev 14											U5 "BKP_DFE1RX" XCV50-6PQ240C
dev 15											U6 "BKP_RGTD" XCV50-6PQ240C
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type code	1011	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010