

QPRO

Device	SMD	Voltage	System Gates	Logic Cells	RAMbus	CFG Bits	MULT's	DLLs	Flip-Flops	Max I/Os	Packages
XC3020*	5962-89948	5	1500	256	—	14779	—	—	256	64	PG84, CB100
XC3030*	None	5	2000	360	—	22176	—	—	360	80	PG84
XC3042*	5962-89713	5	3000	480	—	30784	—	—	480	96	PG84, PG132, CB100
XC3064*	None	5	4500	688	—	46064	—	—	688	120	PG132
XC3090*	5962-89823	5	6000	928	—	64160	—	—	928	144	PG175, CB164
XC4005*	5962-92252	5	9K	466	6272	151960	—	—	616	112	PG156, CB164
XC4010*	5962-92305	5	20K	950	12800	283424	—	—	1120	160	PG191, CB196
XC4013*	5962-94730	5	30K	1368	18438	393632	—	—	1536	192	PG223, CB228
XQ4005E	5962-97522	5	9K	466	6272	95008	—	—	616	112	PG156, CB164
XQ4010E	5962-97523	5	20K	950	12800	178144	—	—	1120	160	HQ208, PG191, CB196
XQ4013E	5962-97524	5	30K	1368	18438	247968	—	—	1536	192	HQ240, PG223, CB228
XQ4025E	5962-97525	5	45K	2432	32768	422176	—	—	2560	256	PG299, CB228
XQ4028EX	5962-98509	5	18K-50K	2432	32768	668184	—	—	2560	256	HQ240, BG352, PG299, CB228
XQ4013XL	5962-98513	3.3	10-30K	1368	18K	393632	—	—	1536	192	PQ240, BG256, PG223, CB228
XQ4036XL	5962-98510	3.3	22-65K	3078	42K	832528	—	—	3168	288	HQ240, BG352, PG411, CB228
XQ4062XL	5962-98511	3.3	40-130K	5472	74K	1433864	—	—	5376	384	HQ240, BG432, PG475, CB228
XQ4085XL	None	3.3	55-180K	7448	100K	1924992	—	—	7185	448	HQ240, BG432, CB228
XQV100	None	2.5	108904	2700	40K	781248	—	4	2400	180	PQ240, BG256, CB228
XQV300	5962-99572	2.5	322970	6912	64K	1751840	—	4	6144	316	PQ240, BG352, BG432, CB228
XQV600	5962-99573	2.5	661111	15552	96K	3608000	—	4	13824	512	HQ240, BG432, CB228
XQV1000	5962-99574	2.5	1124022	27648	128K	6127776	—	4	24576	512	BG560, CG560
XQV600E	None	1.8	986K	15552	288K	3961632	—	8	13824	512	BG432, CB228
XQV1000E	None	1.8	1569K	27648	384K	6587520	—	8	24576	660	BG560, CG560
XQV2000E	None	1.8	2542K	43200	640K	10159648	—	8	38400	804	BG560, FG1156
XQ2V1000	TBD	1.5	1000K	11520	720	4082592	40	8	10240	432	FG456, BG575
XQ2V3000	TBD	1.5	3000K	32256	1728	10494368	96	12	28672	720	BG728, CG717
XQ2V6000	TBD	1.5	6000K	76032	2592	21849504	144	12	67584	1104	CF1144

* Not for new designs

QPRO Radiation Tolerant

Device	Voltage	System Gates	Logic Cells	RAMbus	CFG Bits	MULT's	DLLs	Flip-Flops	Max I/Os	Packages	Total Ionizing Dose (TID) in KRADS
XQR4013XL	3.3	10-30K	1368	18K	393632	—	—	1536	192	CB228	60
XQR4036XL	3.3	22-65K	3078	42K	832528	—	—	3168	288	CB228	60
XQR4062XL	3.3	40-130K	5472	74K	1433864	—	—	5376	384	CB228	60
XQVR300	2.5	322970	6912	64K	1751840	—	4	6144	316	CB228	100
XQVR600	2.5	661111	15552	96K	3608000	—	4	13824	512	CB228	100
XQVR1000	2.5	1124022	27648	128K	6127776	—	4	24576	512	CG560	100
XQR2V1000	1.5	1000K	11520	720	4082592	40	8	10240	432	BG575	200
XQR2V3000	1.5	3000K	32256	1728	10494368	96	12	28672	720	CG717	200
XQR2V6000	1.5	6000K	76032	2592	21849504	144	12	67584	1104	CF1144	200

QPRO Configuration PROMs

Device	SMD	Voltage	System Gates	Logic Cells	RAMbus	CFG Bits	MULT's	DLLs	Flip-Flops	Max I/Os	Packages	Total Ionizing Dose (TID) in KRADS
XC1736D	None	5	—	—	—	32768	—	—	—	—	DD8	—
XC1765D	5962-94717	5	—	—	—	65536	—	—	—	—	DD8	—
XC17128D	None	5	—	—	—	131072	—	—	—	—	DD8	—
XC17256D	5962-95617	5	—	—	—	262144	—	—	—	—	DD8	—
XQ1701L	5962-99514	5	—	—	—	1048576	—	—	—	—	SO20, CC44	—
XQ17V16	TBD	3.3	—	—	—	16777216	—	—	—	—	VQ44, CC44	—
XQR1701L	—	3.3	—	—	—	1048576	—	—	—	—	SO20, CC44	60
XQR18V04	—	3.3	—	—	—	4194304	—	—	—	—	VQ44, CC44	40
XQR17V16**	—	3.3	—	—	—	16777216	—	—	—	—	VQ44, CC44	TBD

** Under development

Device Nomenclatures

XC = Qualified Prior to QML Certification

