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Embedded - Microcontroller, Microprocessor, and FPGA Modules are fundamental components in modern electronic systems, offering a wide range of functionalities and capabilities. Microcontrollers are compact integrated circuits designed to execute specific control tasks within an embedded system. They typically include a processor, memory, and input/output peripherals on a single chip. Microprocessors, on the other hand, are more powerful processing units used in complex computing tasks, often requiring external memory and peripherals. FPGAs (Field Programmable Gate Arrays) are highly flexible devices that can be configured by the user to perform specific logic functions, making them invaluable in applications requiring customization and adaptability.

Applications of [Embedded - Microcontroller,](#)

Details

Product Status	Obsolete
Module/Board Type	MPU Core
Core Processor	Rabbit 3000
Co-Processor	-
Speed	22.1MHz
Flash Size	512KB (Internal), 1MB (External)
RAM Size	512KB
Connector Type	IDC Header 2x20
Size / Dimension	1.2" x 2.95" (30mm x 75mm)
Operating Temperature	-40°C ~ 70°C
Purchase URL	https://www.e-xfl.com/product-detail/digi-international/20-101-1028

RabbitCore Selection Guide

	Rabbit 6000																
	Model	Ethernet/Wireless	Clock (MHz)	Input (V DC / mA)	Prog. Flash	Data SRAM	Serial Flash	NAND Flash	Removable Memory	Config. I/O	Digital Inputs	Digital Outputs	Analog	Serial Ports	Product Size (mm)	Part Number	Development Kit
Rabbit 6000	RCM6760	10/100Base-T (RJ45 Connector)	162.5	With Ethernet 260 mA @ 3.3 V; Without Ethernet 140 mA @ 3.3 V	4 MB	1 MB	4 MB (program)	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 19	20-101-1321	101-1327, 101-1326
	RCM6750	10/100Base-T (Signals only)	162.5	With Ethernet 250 mA @ 3.3 V; Without Ethernet 130 mA @ 3.3 V	4 MB	1 MB	4 MB (program)	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 7	20-101-1320	101-1327, 101-1326
	RCM6710	10/100Base-T (RJ45 Connector)	162.5	With Ethernet 250 mA @ 3.3 V; Without Ethernet 130 mA @ 3.3 V	1 MB	1 MB	1 MB (program)	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 18	20-101-1319	101-1327, 101-1326
	RCM6700	10/100Base-T (Signals only)	162.5	With Ethernet 210 mA @ 3.3 V; Without Ethernet 120 mA @ 3.3 V	1 MB	1 MB	1 MB (program)	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 3	20-101-1318	101-1327, 101-1326
	RCM6650W	10/100Base-T (Signals only) & Wi-Fi	162.5	3.15 V DC-3.45 V DC 625 mA @ 3.3 V while transmitting/receiving, 85 mA @ 3.3 V while not transmitting/receiving	4 MB	1 MB	4 MB (program)	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 10	20-101-1323	101-1325
	RCM6600W	10/100Base-T (Signals only) & Wi-Fi	162.5	3.15 V DC-3.45 V DC 625 mA @ 3.3 V while transmitting/receiving, 85 mA @ 3.3 V while not transmitting/receiving	1 MB	1 MB	1 MB (program)	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 10	20-101-1322	101-1325
Rabbit 5000	RCM5760	10/100Base-T (RJ45 Connector)	50	3.15-3.45 V DC 70 mA @ 3.3 V typical without Ethernet, 200 mA @ 3.3 V typical with Ethernet	1 MB	128K Internal 512 External	2 MB (mass storage option)	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 3	20-101-1307	–
	RCM5750	10/100Base-T (Signals only)	50	3.15-3.45 V DC 70 mA @ 3.3 V typical without Ethernet, 200 mA @ 3.3 V typical with Ethernet	1 MB	128K Internal 512 External	2 MB (mass storage option)	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 3	20-101-1306	–
	RCM5710	10/100Base-T (RJ45 Connector)	50	3.15-3.45 V DC 70 mA @ 3.3 V typical without Ethernet, 200 mA @ 3.3 V typical with Ethernet	1 MB	128K Internal	No	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 3	20-101-1300	–
	RCM5700	10/100Base-T (Signals only)	50	3.15-3.45 V DC 70 mA @ 3.3 V typical without Ethernet, 200 mA @ 3.3 V typical with Ethernet	1 MB	128K Internal	No	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 3	20-101-1235	–
	RCM5650W	Wi-Fi	73.73	3.15 V DC-3.45 V DC 625 mA @ 3.3 V while transmitting/receiving, 85 mA @ 3.3 V while not transmitting/receiving	4 MB	1 MB	4 MB (program)	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 10	20-101-1309	–
	RCM5600W	Wi-Fi	73.73	3.15 V DC-3.45 V DC 625 mA @ 3.3 V while transmitting/receiving, 85 mA @ 3.3 V while not transmitting/receiving	1 MB	1 MB	1 MB (program)	No	No	up to 35 Config. I/O	Configurable	Configurable	No	6	30 × 51 × 10	20-101-1265	–
	RCM5450W	Wi-Fi	73.73	3.15 V DC-3.45 V DC 625 mA @ 3.3 V while transmitting/receiving, 85 mA @ 3.3 V while not transmitting/receiving	1 MB	512K	2 MB	No	No	up to 39 Digital I/O	Configurable	Configurable	No	6	47 × 72 × 14	20-101-1247	–
	RCM5400W	Wi-Fi	73.73	3.15 V DC-3.45 V DC 625 mA @ 3.3 V while transmitting/receiving, 85 mA @ 3.3 V while not transmitting/receiving	512K	512K	1 MB	No	No	up to 39 Digital I/O	Configurable	Configurable	No	6	47 × 72 × 14	20-101-1246	–
Rabbit 4000	RCM4310	10/100Base-T	58.98	3.0-3.6 V DC, 350 mA (typ.) @ 3.3 V, 385 mA @ 3.6 V and 85° C (max.)	512K	512K	1 MB	No	Yes	36	—	—	No	6	47 × 72 × 21	20-101-1139	–
	RCM4300	10/100Base-T	58.98	3.0-3.6 V DC, 350 mA (typ.) @ 3.3 V, 385 mA @ 3.6 V and 85° C (max.)	1 MB	512K	2 MB	No	Yes	28	—	—	Yes	5	47 × 72 × 21	20-101-1138	–
	RCM4210	10/100Base-T	29.49	3.0-3.6 V DC, 200 mA @ 3.3 V (typ.), (pins unloaded)	512K	512K	4 MB	No	No	35	—	—	No	5	47 × 61 × 21	20-101-1132	–
	RCM4200	10/100Base-T	58.98	3.0-3.6 V DC, 240 mA @ 3.3 V (typ.), (pins unloaded)	512K	512K	8 MB	No	No	25	—	—	Yes	4	47 × 61 × 21	20-101-1131	–
	RCM4120	No	59.98	3.0-3.6 V DC, 125 mA @ 3.3 V (pins unloaded)	512K	512K	No	No	No	40	—	—	No	6	36 × 48 × 12	20-101-1154	–
	RCM4110	No	29.49	3.0-3.6 V DC, 65 mA @ 3.3 V (pins unloaded)	512K	256K	No	No	No	40	—	—	No	6	36 × 48 × 12	20-101-1093	–
	RCM4100	No	58.98	3.0-3.6 V DC, 125 mA @ 3.3 V (pins unloaded)	512K	512K	No	No	No	29	—	—	Yes	6	36 × 48 × 12	20-101-1105	–
	RCM4010	10Base-T	58.98	3.0-3.6 V DC, 90 mA @ 3.3 V (preliminary, pins unloaded)	512K 16-bit	512K 16-bit	No	No	No	28	Configurable	Configurable	No	5	47 × 61 × 20	20-101-1112	–
	RCM4000	10Base-T	58.98	3.0-3.6 V DC, 90 mA @ 3.3 V (preliminary, pins unloaded)	512K 16-bit	512K 16-bit	No	32 MB	No	22	Configurable	Configurable	Yes	4	47 × 61 × 20	20-101-1094	–
Rabbit 3000	RCM3910	10/100Base-T	44.2	3.15-3.45 V DC/325 mA @ 44.2 MHz, 3.3 V	512K	512K	No	No	Yes	44	4	4	No	5	30 × 75 × 23	20-101-1197	–
	RCM3900	10/100Base-T	44.2	3.15-3.45 V DC/325 mA @ 44.2 MHz, 3.3 V	512K	512K	No	32 MB	Yes	44	—	—	No	5	30 × 75 × 23	20-101-1196	–
	RCM3750	10/100Base-T	22.1	4.75-5.25 V DC/175 mA @ 22.1 MHz	512K	512K	1 MB	No	No	31	4	4	No	4	30 × 75 × 23	20-101-1028	–
	RCM3720	10Base-T	22.1	4.75-5.25 V DC/100 mA @ 22.1 MHz	512K	256K	1 MB	No	No	31	—	2	No	4	30 × 75 × 23	20-101-1329	–
	RCM3710	10Base-T	22.1	4.75-5.25 V DC/100 mA @ 22.1 MHz	256K	128K	1 MB	No	No	31	—	2	No	4	30 × 75 × 23	20-101-1328	–
	RCM3700	10Base-T	22.1	4.75-5.25 V DC/100 mA @ 22.1 MHz	512K	512K	1 MB	No	No	31	—	2	No	4	30 × 75 × 23	20-101-1305	–
	RCM3610	No	22.1	4.75-12.6 V DC/60 mA @ 22.1 MHz	256K	128K	No	No	No	31	—	2	No	4	31 × 54 × 16	20-101-0673	–
	RCM3600	No	22.1	4.75-12.6 V DC/60 mA @ 22.1 MHz	512K	512K	No	No	No	31	—	2	No	4	31 × 54 × 16	20-101-0672	–
	RCM3410	No	29.4	3.00-3.45 V DC/97 mA @ 29.4 MHz	256K	256K	No	No	No	41	3	3	Yes	5	29 × 35 × 7.9	20-101-0562	–
	RCM3400	No	29.4	3.00-3.45 V DC/97 mA @ 29.4 MHz	512K	512K	No	No	No	41	3	3	Yes	5	29 × 35 × 7.9	20-101-0561	–

Rabbit Selection Guide

RabbitCore Selection Guide (Continued)

Model	Ethernet/ Wireless	Clock (MHz)	Input (V DC /mA)	Prog. Flash	Data SRAM	Serial Flash	NAND Flash	Removable Memory	Config. I/O	Digital Inputs	Digital Outputs	Analog	Serial Ports	Product Size (mm)	Part Number	Development Kit
RCM3319	10/100Base-T	44.2	3.15-3.45 V DC/375 mA	512K	512K	4 MB	No	No	47	3	3	Yes	4	47 x 69 x 22	20-101-1195	101-1069
RCM3309	10/100Base-T	44.2	3.15-3.45 V DC/375 mA	512K	512K	8 MB	No	No	43	3	3	Yes	4	47 x 69 x 22	20-101-1194	101-1069
RCM3209	No	44.2	3.15-3.45 V DC/325 mA	512K	256K	No	No	No	44	4	4	Yes	6	47 x 69 x 22	20-101-1179	101-0552
RCM3110	No	29.4	3.15-3.45 V DC/75 mA	256K	128K	No	No	No	46	4	4	No	6	42 x 47 x 14	20-101-0518	–
RCM3100	No	29.4	3.15-3.45 V DC/75 mA	512K	512K	No	No	No	46	4	4	No	6	42 x 47 x 14	20-101-0517	–
RCM3010	10Base-T	29.4	3.15-3.45 V DC/150 mA	256K	128K	No	No	No	44	4	4	No	6	47 x 69 x 22	20-101-0508	–
RCM3000	10Base-T	29.4	3.15-3.45 V DC/150 mA	512K	512K	No	No	No	44	4	4	No	6	47 x 69 x 22	20-101-0507	–

Single-Board Computer Selection Guide

	Model	Ethernet/Wireless	Clock (MHz)	Input (V DC /mA)	Prog. Flash	Data SRAM	Serial Flash	NAND Flash	Removable Memory	Config. I/O	Digital Inputs	Digital Outputs	Analog	Serial Ports	Product Size (mm)	Part Number	U.S. Development Kit
5000 Rabbit 4000	BL4S220	Wi-Fi	73.73	9-36 V DC, 9 W max	1 MB	512K	–	No	No	32 Configurable	Configurable	8	8 input 2 output	5	96 x 146 x 17	20-101-1260	20-101-1260, 101-1270
	BL4S200	10/100 Base-T	58.98	9-36 V DC, 4.5 W max	512K	512K	512K (program)	No	mini SD 123MB to 1 GB	32 Configurable	Configurable	8	8 input 2 output	5	96 x 146 x 24	20-101-1220	20-101-1220, 101-1270
	BL4S210	10 Base-T	58.98	9-36 V DC, 4.5 W max	512K	512K	—	No	No	32 Configurable	Configurable	8	8 input 2 output	4	96 x 146 x 24	20-101-1259	20-101-1259, 101-1270
	BL4S110	10 Base-T	40	9-36 V DC - 2 W max	1 MB	512K	1 MB (program)	No	No	—	12	8	12	3	96 x 146 x 16	20-101-1256	20-101-1256, 101-1268
	BL4S160	10 Base-T	40	9-36 V DC - 2 W max	2 MB	512K	2 MB (program)	No	No	—	12	8	12	3	96 x 146 x 16	20-101-1258	20-101-1258, 101-1268
Rabbit 3000	BL2610	No	29.4	9-36 V DC/12 W	512K	512K	—	No	No	16	8	4	Yes	5	123 x 126 x 25	20-101-0891	20-101-0891
	BL2600	10/100Base-T	44.2	9-36 V DC/12 W	512K	(512K Prog Exec.) 256K	—	No	No	16	8	4	Yes	5	123 x 126 x 25	20-101-0889	20-101-0889
	LP3510	No	29.4	3-30 V DC/20 mA @ 7.4 MHz	256K	128K	—	No	No	—	16	10	No	6	66 x 93 x 11	20-101-0526	20-101-0525
	LP3500	No	7.4	3-30 V DC/20 mA @ 7.4 MHz	512K	512K	—	No	No	—	16	10	Yes	6	66 x 93 x 11	20-101-0525	20-101-0526
2000	BL2120	No	22.1	9-36 V DC/1.5 W (w/o display), 3 W (w/ display)	256K	128K	—	No	No	—	24	16	Yes	4	87 x 105 x 24	20-101-0463	20-101-0463
	BL2100	10Base-T	22.1	9-36 V DC/1.5 W (w/o display), 3 W (w/ display)	256K	128K	—	No	No	—	24	16	Yes	4	87 x 105 x 24	20-101-0461	20-101-0461

Operator Interface Selection Guide

Rabbit 2000	Model	Ethernet	Clock (MHz)	Input (V DC /mA)	Keypad/Display	Prog. Flash	Data SRAM	Digital Inputs	Digital Outputs	Analog	Serial Ports	Board Size (mm)	Enclosure Size (mm)	Part Number	U.S. Starter Kit
	OP6810	None	22.1	9-36 V DC/1.5 W	132 x 32 Pixel graphic LCD (programmable backlight), user-relegenadable keypad with 7-key/7-LED interface	256K	128K	13	11	No	4	66 x 76 x 28	114 x 91 x 7.6	20-101-0497	20-101-0497
	OP7200	10Base-T	22.1	9-40 V DC or 22-26 V AC/4 W	4096 x 4096 resistive touchscreen. 1/4 VGA (320 x 240 p) with programmable white LED backlight, 9-key keypad	256K	128K	19	8	Yes	4	119 x 95.3	112 x 144 x 43	20-101-0535	20-101-0535
	OP7210	10Base-T	22.1	9-40 V DC or 22-26 V AC/4 W	1/4 VGA (320 x 240 pixels) with programmable white LED backlight, 9-key keypad	256K	128K	16	8	No	4	119 x 95.3	112 x 144 x 43	20-101-0536	20-101-0536