2012 Marvell Product Selector Guide

TOTAL SOLUTIONS FROM MARVELL

Providing a broad spectrum of solutions across a wide range of market segments.

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ARMADA™ Series

Application Processors	Frequency	Device Support	Boot Configuration	Security Support	I/O Voltage	Software	Package Size	Ball Pitch	Package Type	I-Temp*	Special Note
ARMADA 100 Family											
88AP162-B0-BJD2C004	400MHz	6 chip selects	Auto-boot configuration	No	1.8v, 3.3v	Linux, Adobe® FlashLite, Android, Windows® CE	15mm x 15mm	0.8mm	Discrete	*	
88AP166-B0-BJD2C008	800MHz	6 chip selects	Auto-boot configuration	No	1.8v, 3.3v	Linux, Adobe® FlashLite, Android, Windows® CE	15mm x 15mm	0.8mm	Discrete	Yes	
88AP168-B0-BJD2C010	1000MHz	6 chip selects	Auto-boot configuration	No	1.8v, 3.3v	Linux, Adobe® FlashLite, Android, Windows® CE	15mm x 15mm	0.8mm	Discrete	Yes	
ARMADA 500 Family											
88AP510-A1-BJV2C008	800MHz	7 chip selects	Auto-boot configuration	No	1.0v, 1.1v, 1.5v, 1.8v, 2.5v, 3.3v	Ubuntu Linux, Android, Adobe® Flash	27mm x 27mm	1.0mm	Discrete	*	
88AP510-A1-BJV2C010	1000MHz	7 chip selects	Auto-boot configuration	No	1.0v, 1.1v, 1.5v, 1.8v, 2.5v, 3.3v	Ubuntu Linux, Android, Adobe® Flash	27mm x 27mm	1.0mm	Discrete	*	
ARMADA 600 Family											
88AP610-A1-BKF2C008-TUNV	800MHz	7 chip selects	Auto-boot configuration	Yes	1.2v, 1.5v, 1.8v, 3.0v, 3.3v	Linux, Android, Adobe® Flash	12mm x 12mm	0.5mm	POP	*	
88AP610-A1-BLO2C008-TUNV	800MHz	7 chip selects	Auto-boot configuration	Yes	1.2v, 1.5v, 1.8v, 3.0v, 3.3v	Linux, Android, Adobe® Flash	16mm x 16mm	0.5mm	Discrete	*	
88AP610-A1-BLO2C010-TUNV	1000MHz	7 chip selects	Auto-boot configuration	Yes	1.2v, 1.5v, 1.8v, 3.0v, 3.3v	Linux, Android, Adobe® Flash	16mm x 16mm	0.5mm	Discrete	*	
88AP610-A1-BLT2A008-TUNV	800MHz	7 chip selects	Auto-boot configuration	Yes	1.2v, 1.5v, 1.8v, 3.0v, 3.3v	Linux, Android, Adobe® Flash	21mm x 21mm	0.65mm	Discrete	*	Automotive Grade
88AP610-A1-BLT2C008-TUNV	800MHz	7 chip selects	Auto-boot configuration	Yes	1.2v, 1.5v, 1.8v, 3.0v, 3.3v	Linux, Android, Adobe® Flash	21mm x 21mm	0.65mm	Discrete	*	
88AP610-A1-BLT2C010-TUNV	1000MHz	7 chip selects	Auto-boot configuration	Yes	1.2v, 1.5v, 1.8v, 3.0v, 3.3v	Linux, Android, Adobe® Flash	21mm x 21mm	0.65mm	Discrete	*	

*Parts available in temperature range -25C to 85C.

PXA Series

Application Processors	Frequency	Device Support	Boot Configuration	Security Support	I/O Voltage	Software	Package Size	Ball Pitch	Package Type	I-Temp*	Special Note
PXA300 Family											
88AP300-A1-BGK2C624-T161	624MHz	8 chip selects	x16 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP300-A1-BGK2C624-T162	624MHz	8 chip selects	x8 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP300-A1-BGK2C624-T163	624MHz	8 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP300-A1-BGK2C208-T164	208MHz	8 chip selects	x8 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP303-A1-BGF2C624-TN12	624MHz	8 chip selects	x16 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	19mm x 19mm	0.8mm	Discrete	*	
88AP303-A1-BGF2C624-TN22	624MHz	8 chip selects	x8 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	19mm x 19mm	0.8mm	Discrete	*	
88AP303-A1-BGF2C208-TN22	208MHz	8 chip selects	x8 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	19mm x 19mm	0.8mm	Discrete	*	
88AP303-A1-BGF2C624-TN32	624MHz	8 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	19mm x 19mm	0.8mm	Discrete	*	
88AP303-A1-BGF2C208-TN32	208MHz	8 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	19mm x 19mm	0.8mm	Discrete	*	
PXA310 Family											
88AP310-B1-BGK2C624-TN02	624MHz	8 chip selects	Auto-boot configuration	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP310-B1-BGK2C624-TS02	624MHz	8 chip selects	Auto-boot configuration	Yes (trusted)	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP310-B1-BGK2C806-TN02	806MHz	8 chip selects	Auto-boot configuration	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	

*Parts available in temperature range -25C to 85C.

PXA Series

Application Processors	Frequency	Device Support	Boot Configuration	Security Support	I/O Voltage	Software	Package Size	Ball Pitch	Package Type	I-Temp*	Special Note
PXA320 Family											
88AP320-C0-BGR2C624-TN30	624MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	14mm x 14mm	0.5mm	Discrete	*	Low power
88AP320-C0-BGR2C806-TN31	806MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	14mm x 14mm	0.5mm	Discrete	*	Standard power
88AP320-C0-BGR2C806-TN30	806MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	14mm x 14mm	0.5mm	Discrete	*	Low power
88AP320-C0-BGR2C624-TN10	624MHz	6 chip selects	x16 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	14mm x 14mm	0.5mm	Discrete	*	Low power
88AP320-C0-BGR2C806-TN10	806MHz	6 chip selects	x16 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	14mm x 14mm	0.5mm	Discrete	*	Low power
88AP320-C0-BGR2C806-TN11	806MHz	6 chip selects	x16 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	14mm x 14mm	0.5mm	Discrete	*	Standard power
88AP320-C0-BGR2C624-TN20	624MHz	6 chip selects	x8 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	14mm x 14mm	0.5mm	Discrete	*	Low power
88AP320-C0-BGR2C624-TN21	624MHz	6 chip selects	x8 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	14mm x 14mm	0.5mm	Discrete	*	Standard power
88AP320-C0-BGR2C806-TN21	806MHz	6 chip selects	x8 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	14mm x 14mm	0.5mm	Discrete	*	Standard power
88AP320-C0-BGR2E806-TN21	806MHz	6 chip selects	x8 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	14mm x 14mm	0.5mm	Discrete	Yes	Standard power
PXA270 Family											
88AP270MA2-BGO2C312	312MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP270MA2-BGO2C416	416MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	

*Parts available in temperature range -25C to 85C.

PXA Series

Application Processors	Frequency	Device Support	Boot Configuration	Security Support	I/O Voltage	Software	Package Size	Ball Pitch	Package Type	I-Temp*	Special Note
88AP270MA2-BGO2C520	520MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP270MA2-BGO2C624	624MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP270MA2-BHE1C312	312MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	23mm x 23mm	1.0mm	Discrete	*	
88AP270MA2-BHE1E312 (Extended Temp)	312MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	23mm x 23mm	1.0mm	Discrete	Yes	
88AP270MA2-BHE1C416	416MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	23mm x 23mm	1.0mm	Discrete	*	
88AP270MA2-BHE1E416 (Extended Temp)	416MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	23mm x 23mm	1.0mm	Discrete	Yes	
88AP270MA2-BHE1C520	520MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	23mm x 23mm	1.0mm	Discrete	*	
88AP270MA2-BHE1C624	624MHz	6 chip selects	x16 NOR	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	23mm x 23mm	1.0mm	Discrete	*	

*Parts available in temperature range -25C to 85C.

Pantheon and PXA Series

Marvell Semiconductor provides the PXA family of cellular FFOS platform solutions for the EDGE and 3G protocols. Marvell's highly integrated cellular products lead the industry with high-tier multi- media FFOS performance at mid-tier BOM pricing.

Please contact your Marvell field sales office for more details on the PXA family of cellular products.

ARMADA Series

Embedded Processors

Part Numbers	CPU Base Architecture	I/O Support	Frequency	Number of Issues	Cache	DDR Controller	Package Size	Package Type	Ball Pitch	I-Temp	Evaluation Board	Software
ARMADA 300 Family												
88F6282 High-performance CPU	88F6282	ARM®v5TE Single Core	2 x GbE, 2 x PCIe (x1), 1 x USB, 2 x UART, 2 x SATA, Native NAND, SPI	1.2GHz, 1.6GHz, 2.0GHz	Single-Issue	L1: 16KB-I, 16KB-D; L2: 256KB unified	16-bit, DDR3-1066, DDR2-800	15mm x 15mm	304-HFCBGA	0.65mm		DB-88F6282-A0, RD-88F6282-A0	u-boot, Linux, vxWorks and others
88F6283 Low-power CPU	88F6283	ARM®v5TE Single Core	2 x GbE, 2 x PCIe (x1), 1 x USB, 2 x UART, 2 x SATA, Native NAND, SPI	600MHz, 800MHz, 1.0GHz	Single-Issue	L1: 16KB-I, 16KB-D; L2: 256KB unified	16-bit, DDR3-1066, DDR2-800	15mm x 15mm	304-FCBGA	0.65mm		DB-88F6282-A0, RD-88F6282-A0	u-boot, Linux, vxWorks and others

DISCOVERY INNOVATION Series

Embedded Processors

Part Numbers	CPU Base Architecture	I/O Support	Frequency	Number of Issues	Cache	DDR Controller	Package Size	Package Type	Ball Pitch	I-Temp	Evaluation Board	Software
MV78200 SoC with Dual-Core Dual-Issue Marvell CPU	MV78200	ARM®v5TE Dual Core	4 x GbE, 2 x PCIe (1 x4 or 4 x1), 3 x USB, 4 x UART, 2 x SATA, 32 bit Device bus	800MHz, 1.0GHz	Dual-Issue w/FPU	L1: 32KB-I, 32KB-D per core; L2: 512KB unified per core	32/64-bit DDR2-800 with ECC	27mm x 27mm	655-FCBGA	1.0mm	Yes	DB-MV78200-A1	u-boot, Linux, vxWorks and others
MV78100 SoC with Dual-Core Dual-Issue Marvell CPU	MV78100	ARM®v5TE Single Core	2 x GbE, 2 x PCIe (1 x4 or 4 x1) (1 x1), 3 x USB, 4 x UART, 1 x SATA, 32 bit Device bus	800MHz, 1.0GHz, 1.2GHz	Dual-Issue w/FPU	L1: 32KB-I, 32KB-D; L2: 512KB unified	32/64-bit DDR2-800 with ECC	27mm x 27mm	655-FCBGA	1.0mm	Yes	DB-MV78100-A1	u-boot, Linux, vxWorks and others
MV76100 SoC with Dual-Core Dual-Issue Marvell CPU	MV76100	ARM®v5TE Single Core	2 x GbE, 2 x PCIe (1 x4 or 4 x1) (1 x1), 3 x USB, 4 x UART, 1 x SATA, 32 bit Device bus	600MHz, 800MHz	Dual-Issue w/FPU	L1: 32KB-I, 32KB-D; L2: 256KB unified	32-bit DDR2-800 with ECC	27mm x 27mm	655-FCBGA	1.0mm		DB-MV76100-A1	u-boot, Linux, vxWorks and others

KIRKWOOD™ DUO Series

Embedded Processors

Part Numbers	CPU Base Architecture	I/O Support	Frequency	Number of Issues	Cache	DDR Controller	Package Size	Package Type	Ball Pitch	I-Temp	Evaluation Board	Software
88F6321 SoC with Dual-Core Dual-Issue Marvell CPU	ARM®v5TE Dual Core	2 x GbE, PCIe (x1), 1 x USB, 2 x UART, 8 bit Device bus	600MHz, 800MHz	Dual-Issue w/FPU	L1: 32KB-I, 32KB-D; L2: 256K/ Core	32-bit DDR2-800 with ECC	27mm x 27mm	655-FCBGA	1.0mm		DB-88F6323-A1	u-boot, Linux, vxWorks and others
88F6322 SoC with Dual-Core Dual-Issue Marvell CPU	ARM®v5TE Dual Core	2 x GbE, 2 x PCIe (x1), 2 x USB, 2 x UART, 8 bit Device bus	600MHz, 800MHz	Dual-Issue w/FPU	L1: 32KB-I, 32KB-D; L2: 256K/ Core	32-bit DDR2-800 with ECC	27mm x 27mm	655-FCBGA	1.0mm		DB-88F6323-A1	u-boot, Linux, vxWorks and others
88F6323 SoC with Dual-Core Dual-Issue Marvell CPU	ARM®v5TE Dual Core	3 x GbE, 2 x PCIe (x1), 3 x USB, 2 x UART, 1 x SATA, 8 bit Device bus	600MHz, 800MHz, 1.0GHz	Dual-Issue w/FPU	L1: 32KB-I, 32KB-D; L2: 256K/ Core	32-bit DDR2-800 with ECC	27mm x 27mm	655-FCBGA	1.0mm		DB-88F6323-A1	u-boot, Linux, vxWorks and others

KIRKWOOD™ Series

Embedded Processors

Part Numbers	CPU Base Architecture	I/O Support	Frequency	Number of Issues	Cache	DDR Controller	Package Size	Package Type	Ball Pitch	I-Temp	Evaluation Board	Software
88F6281 SoC with Dual-Core Dual-Issue Marvell CPU	ARM®v5TE Single Core	PCIe (x1), 2 x GbE, 1 x USB2.0, 2 x SATA, 2 x UART, 8 bit Device bus	800MHz, 1.0GHz, 1.2GHz	Single-Issue	L1: 16KB-I, 16KB-D; L2: 256KB unified	16-bit DD R2-800	19mm x 19mm	288-HSBGA	1.0mm		RD-88F6281-A-BGA	u-boot, Linux, vxWorks and others
88F6192 SoC with Dual-Core Dual-Issue Marvell CPU	ARM®v5TE Single Core	PCIe (x1), 2 x GbE, 1 x USB2.0, 2 x SATA, 2 x UART, 8 bit Device bus	600MHz, 800MHz	Single-Issue	L1: 16KB-I, 16KB-D, L2: 256KB unified	16-bit DD R2-400	24mm x 24mm	216-LQFP	0.4mm		RD-88F6192-A-QFP	u-boot, Linux, vxWorks and others
88F6180 SoC with Dual-Core Dual-Issue Marvell CPU	ARM®v5TE Single Core	PCIe (x1), 1 x GbE, 1 x USB2.0, 1 x UART, 8 bit Device bus	800MHz	Single-Issue	L1: 16KB-I, 16KB-D; L2: 256KB unified	16-bit DD R2-400	13mm x 13mm	244-TSBGA	0.8mm		DB-88F6180-A-BGA	u-boot, Linux, vxWorks and others
88F6280 SoC with Dual-Core Dual-Issue Marvell CPU	ARM®v5TE Single Core	1 x GbE, 1 x USB2.0, 2 x UART, 8 bit Device bus	600MHz, 800MHz, 1.0GHz	Single-Issue	L1: 16KB-I, 16KB-D; L2: 256KB unified	16-bit DD R2-400	14mm x 20mm	128-LQFP	0.5mm		DB-88F6280-A1	u-boot, Linux, vxWorks and others

YUKON® Series

ETHERNET CONTROLLERS

Ordering Part Numbers	Media Support	Bus Interface	Integrated On Chip Buffer	Package Size	Package Type	I-Temp	Software	Boot ROM Support	Virtual Cable Tester Support
Yukon FE 88E8040 PCI Express Fast Ethernet Controller	88E8040-A0-NNB2-C000	10/100 BASE-T Copper	x1 PCI Express	3KB Rx 2KB Tx RAM	7mm x 7mm	48QFN	No	Drivers- Windows® XP/2003, Windows®7 and Vista/Server 2008 and Linux	Yes	Yes
Yukon FE 88E8040 PCI Express Fast Ethernet Controller	88E8040-A0-NNC2-C000	10/100 BASE-T Copper	x1 PCI Express	3KB Rx 2KB Tx RAM	9mm x 9mm	64QFN	No	Drivers- Windows® XP/2003, Windows®7 and Vista/Server 2008 and Linux	Yes	Yes
Yukon Ultra II 88E8057 PCI Express Gigabit Ethernet Controller	88E8057-A0-NNB2-C000	10/100/1000 BASE-T Copper	x1 PCI Express	16KB Rx 10KB Tx RAM	7mm x 7mm	48QFN	No	Drivers- Windows® XP/2003, Windows®7 and Vista/Server 2008 and Linux	Yes	Yes
Yukon Ultra II 88E8057 PCI Express Gigabit Ethernet Controller	88E8057-A0-NNC2-C000	10/100/1000 BASE-T Copper	x1 PCI Express	16KB Rx 10KB Tx RAM	9mm x 9mm	64QFN	No	Drivers- Windows® XP/2003, Windows®7 and Vista/Server 2008 and Linux	Yes	Yes
Yukon Ultra II 88E8057 PCI Express Gigabit Ethernet Controller	88E8057-A0-NNC2-1000	10/100/1000 BASE-T Copper	x1 PCI Express	16KB Rx 10KB Tx RAM	9mm x 9mm	64QFN	Yes	Drivers- Windows® XP/2003, Windows®7 and Vista/Server 2008 and Linux	Yes	Yes
Yukon Optima 88E8059 PCI Express Gigabit Ethernet Controller with AVB	88E8059-A0-NNB2-C000	10/100/1000 BASE-T Copper	x1 PCI Express	16KB Rx 10KB Tx RAM	7mm x 7mm	48QFN	No	Drivers- Windows® XP/2003, Windows®7 and Vista/Server 2008 and Linux	Yes	Yes
Yukon Optima 88E8059 PCI Express Gigabit Ethernet Controller with AVB	88E8059-A0-NNC2-C000	10/100/1000 BASE-T Copper	x1 PCI Express	16KB Rx 10KB Tx RAM	9mm x 9mm	64QFN	No	Drivers- Windows® XP/2003, Windows®7 and Vista/Server 2008 and Linux	Yes	Yes

LINK STREET® Series

Gateways	CPU	Memory	Port Configuration	Evaluation Board	Cache	GPIO	MAC Size	Power	Package Size	Package Type	QoS IEEE 802.1p Priority, 4 Queues per Port	IEEE 802.1Q Dynamic VLANs Supported	IEEE 802.1D Spanning Tree Support	I-Temp
Link Street 88E6218 6-Port FE Gateway Router	150MHz ARM®9 CPU	16/32-bit SDRAM	5 FE PHYs, 1 MII, 1 UART, 1 JTAG	RD-88E6218-SD-1	I&D 8K/8K 4-way	16	1K	2.25W	24mm x 24mm	216-QFP	Yes	No	Yes	
Link Street 88E6218R 5-Port FE Gateway Router	133MHz ARM®9 CPU	16-bit SDRAM	5 FE PHYs, 1 UART, 1 JTAG	DB1-88E6218R-1	I&D 8K/8K 4-way	9	1K	2.25W	14mm x 20mm	128-QFP	Yes	No	Yes	
Link Street 88E7251 6-Port FE AVB Gateway Router	400MHz ARM®9 CPU	8-bit DDR2	5 FE PHYs, 1 MII, 1 UART, 1 JTAG, USB, SDIO, I2S/ TDM Audio	RD1-88E7251-1	I&D 16K/16K 4-way	16	1K	1.0W	14mm x 20mm	128-QFP	Yes	64	Yes	
Link Street 88E7251F 6-Port FE AVB Gateway Router	400MHz ARM®9 CPU	16-bit DDR2	5 FE PHYs, 1 MII, 1 UART, 1 JTAG, USB, SDIO, I2S/ TDM Audio	RD1-88E7251F-1	I&D 16K/16K 4-way	16	1K	1.0W	20mm x 20mm	176-QFP	Yes	64	Yes	

LED Drivers

LED Lighting	Part Numbers	Topology	Current Control	Power Factor Correction	Total Harmonic Distortion	Input Voltage Range	Output Power	Switching Frequency	Dimming	Other Features	Package Type
88EM8080	88EM8080AC-SAG2C000	AC/DC Single-stage Fly-back, secondary sensing control	CCM/DCM	0.99	<10%	Universal Input	0 to 150W (w/ external FET)	60kHz	PWM com patible	OCP, OVP, OTP	8-pin SOIC
88EM8081	88EM8081AC-SAG2C000	AC/DC Single-stage Fly-back, secondary sensing control	CCM/DCM	0.99	<10%	Universal Input	0 to 150W (w/ external FET)	120kHz	PWM com patible	OCP, OVP, OTP	8-pin SOIC
88EM8082	88EM8082A1-SAG2C000	AC/DC Single-stage Fly-back, secondary sensing control	CCM/DCM	0.99	<10%	Universal Input	0 to 150W (w/ external FET)	120kHz	PWM com patible	OCP, OVP, OTP	8-pin SOIC

XELERATED® NPU

Network Processors	Part Numbers	Line Interfaces	System Interfaces	Evaluation Boards	Integrated Ethernet PHY/MAC	Package Size	Package Type	I-Temp
X11 NPU Series								
Xelerated X11-d240t 40 Gbps Carrier Ethernet Network Processor	XEL-14001-D240T	24 SGMII, 4 XAUI	2 SPI-4.2	XEL-13011-2, XEL-13012-2	24 GE, 4 10GE	40mm x 40mm	HFCBGA	No
HX NPU Series								
Xelerated HX320 100 Gbps Carrier Ethernet Network Processor	XEL-18001-HX320	48 SGMII, QSGMII, 12 XAUI, 3 Interlaken	Interlaken XAUI	XEL-13020-1, XEL-13020-2	48 GE (16 2.5GE), 12 10GE	45mm x 45mm	HFCBGA	No
Xelerated HX330 100 Gbps Carrier Ethernet Network Processor with integrated Traffic Manager	XEL-18001-HX330	48 SGMII, QSGMII, 12 XAUI, 3 Interlaken	Interlaken XAUI	XEL-13020-1, XEL-13020-2	48 GE (16 2.5GE), 12 10GE	45mm x 45mm	HFCBGA	No
Xelerated HX326 100 Gbps Carrier Ethernet Network Processor for 100GE/OTU 4 applications	XEL-18001-HX326	48 SGMII, QSGMII, 12 XAUI, 3 Interlaken	Interlaken, 100G clear-channel XAUI	XEL-13020-1, XEL-13020-2	48 GE (16 2.5GE), 12 10GE	45mm x 45mm	HFCBGA	No
Xelerated HX336 100 Gbps Carrier Ethernet Network Processor with integrated Traffic Manager for 100GE/OTU4 applications	XEL-18001-HX336	48 SGMII, QSGMII, 12 XAUI, 3 Interlaken	Interlaken, 100G clear-channel XAUI	XEL-13020-1, XEL-13020-2	48 GE (16 2.5GE), 12 10GE	45mm x 45mm	HFCBGA	No
AX Programmable Ethernet Switches								
Xelerated AX210 Programmable Ethernet Switch	XEL-19001-AX210	32 SGMII, QSGMII, 10 XAUI, 2 Interlaken	Interlaken XAUI	XEL-13020	32 GE (16 2.5GE), 12 10GE	40mm x 40mm	HFCBGA	Option
Xelerated AX240 Programmable Ethernet Switch with integrated Traffic Manager	XEL-19001-AX240	32 SGMII, QSGMII, 10 XAUI, 2 Interlaken	Interlaken XAUI	XEL-13020	32 GE (16 2.5GE), 12 10GE	40mm x 40mm	HFCBGA	Option
Xelerated AX310 Programmable Ethernet Switch	XEL-19001-AX310	48 SGMII, QSGMII, 12 XAUI, 2 Interlaken	Interlaken XAUI	XEL-13020	48 GE (16 2.5GE), 12 10GE	40mm x 40mm	HFCBGA	Option
Xelerated AX340 Programmable Ethernet Switch with integrated Traffic Manager	XEL-19001-AX340	48 SGMII, QSGMII, 12 XAUI, 2 Interlaken	Interlaken XAUI	XEL-13020	48 GE (16 2.5GE), 12 10GE	40mm x 40mm	HFCBGA	Option

PCI Express to PCI Bridges

PCI Bridges	Part Number	Lanes	Max Payload Size	Bus Interface	PCI Bus Type	Reverse Mode	PCI Masters	GPIO	Power	Package Size	Package Type	I-Temp	Evaluation Board
88SB2211 PCI Express to PCI Bridge	88SB2211	1	128 Bytes	PCI-e to PCI	32-bit, 33MHz	Yes	5	8	0.7W	14mm x 20mm	128 LQFP		DB-88SB2211-B-PCI2PEX DB-88SB2211-B-PEX2PCI

DC-DC REGULATORS Series 1

Power Management

	Part Numbers	Iout (Max)	IQ 3 (Iout = 0)	Vin	TOP FET RDS(ON) @5.0V	BOT FET RDS(ON) @5.0V	Package Type	Features	I-Temp*
Synchronous Buck Regulator									
MVPG16	MVPG16-NAE1	1.0A	1.0mA	3.0V to 5.5V	120m	70m	3mm x 4mm DFN-12	1MHz, Shutdown	Yes
88PG839	88PG839-NAE2	2.0A	25uA	2.7V to 5.5V	120m	80m	3mm x 4mm DFN-12	Enable, PGood, OVP, SS, 2.0 MHz	Yes
MVPG31	MVPG31-NAE1	2.0A	1.0mA	3.0V to 5.5V	120m	70m	3mm x 4mm DFN-12	1MHz, Shutdown	Yes
88PG877	88PG877-NFB1	5.0A	1.2mA	3.0V to 5.5V	9.5m	7.5m	3mm x 4mm QFN-18	1MHz, Enable, POR, OVP	Yes
88PH8101	88PH8101-UBB1	Up to 10A	2.5mA	4.5V to 16V	External FET	External FET	TSSOP-16	Enable, PGood, OVP, SS, 500kHz	Yes
88PH845	88PH845-NFB1	3.0A	2.7mA	4.5V to 16V	70m	35m	3mm x 4mm QFN-18	Enable, PGood, OVP, SS, 500kHz	Yes

*Specifications over the -40C to 85C operating temperature ranges are assured by design, characterization, and correlation with statistical process controls.

DC-DC REGULATORS Series 2

Power Management

	Part Numbers	Iout (Max)	IQ 3 (Iout = 0)	Vin	TOP FET RDS(ON) @5.0V	BOT FET RDS(ON) @5.0V	Package Type	Features	I-Temp*
Synchronous Buck Regulator LDO									
MVPG15x	MVPG15x-NAE1	1.0A	1.7mA	3.0V to 5.5V	120m	70m	3mm x 4mm DFN-12	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown	Yes

*Specifications over the -40C to 85C operating temperature ranges are assured by design, characterization, and correlation with statistical process controls.

DC-DC REGULATORS
Series 2

Power Management	Part Numbers	Iout (Max)	IQ 3 (Iout = 0)	Vin	TOP FET RDS(ON) @5.0V	BOT FET RDS(ON) @5.0V	Package Type	Features	I-Temp*
MVPG30x	MVPG30x-NAE1	2.0A	1.7mA	3.0V to 5.5V	120m	70m	3mm x 4mm DFN-12	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown	Yes
88PG817x	88PG817x-NAM1	1.0A	1.9mA	2.75V to 5.5V	67m	21m	3mm x 3mm QFN-16	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown, POR, OVP	Yes
88PG827x	88PG827x-NAM1	1.6A	1.9mA	2.75V to 5.5V	67m	21m	3mm x 3mm QFN-16	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown, POR, OVP	Yes
88PG837x	88PG837x-NAM1	2.0A	1.9mA	2.75V to 5.5V	67m	21m	3mm x 3mm QFN-16	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown, POR, OVP	Yes
88PG847x	88PG847x-NAM1	3.0A	1.9mA	2.75V to 5.5V	67m	21m	3mm x 3mm QFN-16	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown, POR, OVP	Yes
88PG849E	88PG849E-NAM2	3.0A	1.9mA	2.75V to 5.5V	67m	21m	3mm x 3mm QFN-16	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown, POR, OVP	Yes
88PG8218	88PG8218-NAE2	1.2A	220uA	2.7V to 5.5V	150m	100m	3mm x 4mm DFN-12	250mA LDO, LDO output up to 5V, SS, Enable, 2.0MHz	Yes
88PG8318 (2 LDO)	88PG8318-NAE2	1.2A	85uA	2.7V to 5.5V	150m	100m	3mm x 4mm DFN-12	2 x 150mA LDO, LDO output 1.8V/2.5V, SS, Enable, 2.0MHz	Yes
88PW889	88PW889-CBD2	700mA	30uA	2.7V to 5.5V	150m	100m	CSP	100mA LDO, 2.0 MHz, for Mobile applications	Yes
88PG8111	88PG8111-NXS2	500mA	25uA	2.7V to 5.5V	320m	150m	3mm x 3mm QFN-20	50mA LDO, 2.7 MHz, for Mobile applications	Yes

*Specifications over the -40C to 85C operating temperature ranges are assured by design, characterization, and correlation with statistical process controls.

DC-DC REGULATORS
Series 3

Power Management

	Part Numbers	Iout (Max)	IQ 3 (Iout = 0)	Vin	TOP FET RDS(ON) @5.0V	BOT FET RDS(ON) @5.0V	Package Type	Features	I-Temp*
Dual Synchronous Buck Regulator									
88PG8216	88PG8216-NFE1	1.0A/1.5A	2.1mA	2.75V to 5.5V	81m	37m	3mm x 4mm QFN-20	1MHz, Enable, Soft Start, POR, OVP	Yes
88PG8226	88PG8226-NFE1	1.5A/1.5A	2.1mA	2.75V to 5.5V	81m	37m	3mm x 4mm QFN-20	1MHz, Enable, Soft Start, POR, OVP	Yes
88PG8227	88PG8227-NFE1	1.5A/2.0A	2.1mA	2.75V to 5.5V	81m	37m	3mm x 4mm QFN-20	1MHz, Enable, Soft Start, POR, OVP	Yes
88PG8237	88PG8237-NFE1	2.0A/2.0A	2.1mA	2.75V to 5.5V	81m	37m	3mm x 4mm QFN-20	1MHz, Enable, Soft Start, POR, OVP	Yes
88PW886 (3 buck 3 LDO)	88PW886-NAR2	300mA	90uA	2.7V to 5.5V	333m	210m	4mm x 4mm QFN-20	3 x LDO, 3 x buck, 1.5MHz, for Mobile applications	Yes
88PG8211 (2 Buck LDO)	88PG8211-NXS2	500mA	25uA	2.7V to 5.5V	320m	150m	3mm x 3mm QFN-20	50mA LDO, 2.7 MHz, for Mobile applications	Yes

*Specifications over the -40C to 85C operating temperature ranges are assured by design, characterization, and correlation with statistical process controls.

SATA Storage Controllers

Storage Switching	Part Numbers	Port Count	Bus Type	Queuing	Port Multiplier Support	Flash	Marvell Firmware	Power	Package Size	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Number
88SE6101 PCIe x1 to 1 PATA Controller	88SE6101	1P	PCI-Express x1	Tag and Native Command	No	No	N/A	600mW	9mm x 9mm	64-QFN		N/A	DB-88SE6101
88SE6121 PCIe x1 to 2 SATA 3Gb/s Ports and 1 PATA RAID Controller	88SE6121	2S1P	PCI-Express x1	Tag and Native Command	FIS-Based	No	RAID 0/1	1W	9mm x 9mm	76-QFN		N/A	DB-88SE6121
88SE9120 PCIe 2.0 x1 to 2 SATA 6Gb/s Ports and 1 PATA I/O Controller	88SE9120	2S1P	PCI-Express 2.0 x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	1W	9mm x 9mm	76-QFN		0.4mm	DB1-88SE9120-CPLD
88SE9125 PCIe 2.0 x1 to 2 SATA 6Gb/s Ports I/O Controller	88SE9125	2S	PCI Express 2.0 x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	1W	9mm x 9mm	76-QFN		0.4 mm	DB1-88SE9125-CPLD
88SE9130 PCIe 2.0 x1 to 2 SATA 6Gb/s Ports RAID Controller	88SE9130	2S	PCI Express 2.0 x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	HyperDuo	1W	9mm x 9mm	76-QFN		0.4 mm	DB1-88SE9130-CPLD

SAS/SATA Storage Controllers

Storage Switching	Part Numbers	Port Count	Bus Type	Queuing	SAS Expander Support	Flash	Target Mode	Marvell RAID Software	Power	Package Size	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Number
88SE6320 PCIe x1 to 2 SAS/SATA 3Gb/s Ports RAID Controller	88SE6320	2	PCI-Express x1	Tag and Native C ommand	Yes	Flash BIOS I/F	No	RAID 0/1	2W	16mm x 16mm	128-TQFP		N/A	DB-88SE6340

SAS/SATA Storage Controllers

Storage Switching

Part Numbers	Port Count	Bus Type	Queuing	SAS Expander Support	Flash	Target Mode	Marvell RAID Software	Power	Package Size	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Number
88SE6340 PCIe x1 to 4 SAS/SATA 3Gb/s Ports RAID Controller	88SE6340	4	PCI-Express x1	Tag and Native C ommand	Yes	Flash BIOS I/F	No	RAID 0/1	3W	16mm x 16mm	128-TQFP		N/A	DB-88SE6340
88SE6440 PCIe x4 to 4 SAS/SATA 3Gb/s Ports RAID Controller	88SE6440	4	PCI-Express x4	Tag and Native C ommand	Yes	Flash BIOS I/F	No	RAID 0/1/10/5	3W	16mm x 16mm	128-TQFP		N/A	HA-VA2400s-R01vxx
88SE6445 PCIe x4 to 4 SAS/SATA 3Gb/s Ports I/O Controller	88SE6445	4	PCI-Express x4	Tag and Native C ommand	Yes	Flash BIOS I/F	Yes	N/A	3W	16mm x 16mm	128-TQFP		N/A	HA-VA2400s-R01vxx
88SE6480 PCIe x4 to 8 SAS/SATA 3Gb/s Ports RAID Controller	88SE6480	8	PCI-Express x4	Tag and Native C ommand	Yes	Flash BIOS I/F	No	RAID 0/1/10/5	4W	19mm x 19mm	324-TFBGA		1.0mm	DB-88SE6480
88SE6485 PCIe x4 to 8 SAS/SATA 3Gb/s Ports I/O Controller	88SE6485	8	PCI-Express x4	Tag and Native C ommand	Yes	Flash BIOS I/F	Yes	N/A	4W	19mm x 19mm	324-TFBGA		1.0mm	DB-88SE6480
88SE9485 PCIe 2.0 x8 to 8 SAS/SATA 6Gb/s Ports RAID Controller	88SE9485	8	PCI-Express 2.0 x8	Tag and Native C ommand	Yes	Flash BIOS I/F	No	N/A	~6W	23mm x 23mm	484-HSBGA		1.0mm	HA2VA6800m-RC1Vxx
88SE9445 PCIe 2.0 x4 to 4 SAS/SATA 6Gb/s Ports RAID Controller	88SE9445	4	PCI-Express 2.0 x4	Tag and Native C ommand	Yes	Flash BIOS I/F	Yes	N/A	~5W	19mm x 19mm	481-TFBGA		0.8mm	EV1-88SE9445

SATA Port Multiplier/Multiplexer

Storage Switching

	Part Numbers	Port Count	Data Rate	Power	Package Size	Package Type	I-Temp	Evaluation Board Part Number
88SM4140 1:4 Serial ATA 3Gb/s Port Multiplier	88SM4140	5	SATA 3Gb/s	1.67W	14mm x 14mm	80-LQFP		DB1-88SM4140C1-8087
88SM4021 2:1 Serial ATA Fail-Over Multiplexer	88SM4021	3	SATA 1.5Gb/s	0.88W	9mm x 9mm	48-TQFP		DB-88SM4021

SATA Bridge

Storage Switching

	Part Numbers	Port Count	Data Rate	Power	Package Size	Package Type	I-Temp	Evaluation Board Part Number
88SA8052 SATA/PATA Bridge	88SA8052	Host or Device	SATA 3Gb/s to PATA 133	0.25W	9mm x 9mm	64-QFN or TQFP	Yes (QFN)	DB-88SA8052-D, DB-88SA8052-H

SAS to SATA Protocol Converter

Storage Switching

	Part Number	SAS Port	SATA port	Data Rate	Internal Flash	Power	Package Size	Package Type	I-Temp	Evaluation Board Part Number
88SF9210 6Gb/s SAS to SATA Protocol Converter	88SF9210	2	2	SAS/SATA 6.0 Gb/s	N/A	1.35W	10mm x 10mm	84-QFN		DB1-88SF9210

SAS to SATA Protocol Converter

Storage Switching

	Part Number	SAS Port	SATA port	Data Rate	Internal Flash	Power	Package Size	Package Type	I-Temp	Evaluation Board Part Number
88SF9110 6Gb/s SAS to SATA Protocol Converter	88SF9110	2	1	SAS/SATA 6.0 Gb/s	N/A	1.10W	10mm x 10mm	84-QFN		DB1-88SF9110
88SF9118 6Gb/s SAS to SATA Protocol Converter	88SF9118	2	1	SAS/SATA 6.0 Gb/s	N/A	1.25W	8mm x 11mm	117-TFBGA		DB1-88SF9118

Link Street® - Fast Ethernet Switches

SOHO Switching	Number of Ports	Port Configuration	Power	I-Temp	Evaluation Board Part Numbers	Audio Video Bridging/ IEEE 1588	MAC Size	IEEE 802.1Q Dynamic VLANs Supported	Package Size	Package Type	100BASE-FX Support	QoS IEEE 802.1p Priority, 4 Queues per Port	SNMP, RMON Network Management Support
88E6020 4-Port Fast Ethernet Switch	4	2 PHYs 2 MII/RMII	0.3W		DB1-88E6071-1		1K	64	3mm x 3mm	64-QFN	Yes: 1 PHY Port	Yes	Yes
88E6031 3-Port Fast Ethernet Switch	3	2 PHYs 1 MII or 1 PHY 2 MII	0.4W		DB-88E6061-1		1K	16	14mm x 20mm	128-QFP	Yes: 1 PHY Port	Yes	
88E6035 3-Port Fast Ethernet Switch	3	2 PHYs 1 MII or 1 PHY 2 MII	0.4W		DB-88E6065-1		1K	64	14mm x 20mm	128-QFP	Yes: 1 PHY Port	Yes	Yes
88E6060 6-Port Fast Ethernet Switch	6	5 PHYs 1 MII or 4 PHYs 2 MII	0.7W	Yes	DB-88E6060-1		1K	0	14mm x 20mm	128-QFP	Yes: 2 PHY Ports		
88E6061/B 6-Port Fast Ethernet Switch	6	5 PHYs 1 MII or 4 PHYs 2 MII	0.7W	Yes	DB-88E6061-1		1K	16	14mm x 20mm	128-QFP	Yes: 2 PHY Ports	Yes	
88E6063 7-Port Fast Ethernet Switch	7	5 PHYs 2 MII	0.9W	Yes	DB-88E6063-1		2K	16	14mm x 20mm	128-QFP	Yes: 2 PHY Ports	Yes	Yes
88E6065/B 6-Port Fast Ethernet Switch	6	5 PHYs 1 MII or 4 PHYs 2 MII	0.7W	Yes	DB-88E6065-1		1K	64	14mm x 20mm	128-QFP	Yes: 2 PHY Ports	Yes	Yes
88E6070 5-Port Fast Ethernet Switch	5	5 PHYs	0.5W		DB1-88E6071-1		1K	64	3mm x 3mm	64-QFN	Yes: 1 PHY Port	Yes	
88E6071 7-Port Fast Ethernet Switch	7	5 PHYs 2 RMII (or 1 MII/ RGMII)	0.5W		DB1-88E6071-1		1K	64	3mm x 3mm	64-QFN	Yes: 1 PHY Port	Yes	Yes
88E6083 10-Port Fast Ethernet Switch	10	8 PHYs 2 MII	1.4W	Yes	RD-88E6083-1		2K	16	24mm x 24mm	216-QFP	Yes: 8 PHY Ports	Yes	Yes

Link Street® - Fast Ethernet Switches

SOHO Switching	Number of Ports	Port Configuration	Power	I-Temp	Evaluation Board Part Numbers	Audio Video Bridging/ IEEE 1588	MAC Size	IEEE 802.1Q Dynamic VLANs Supported	Package Size	Package Type	100BASE-FX Support	QoS IEEE 802.1p Priority, 4 Queues per Port	SNMP, RMON Network Management Support
88E6085 10-Port Fast Ethernet Switch	10	8 PHYs 2 MII	1.2W	Yes	DB-88E6085-1		2K	64	20mm x 20mm	176-QFP		Yes	Yes
88E6220 4-Port Fast Ethernet Switch	4	2 PHYs 2 MII/RMII	0.3W		DB1-88E6250-1	Yes	1K	64	3mm x 3mm	64-QFN	Yes: 1 PHY Port	Yes	Yes
88E6250 7-Port Fast Ethernet Switch	7	5 PHYs 2 RMII (or 1 MII/ RGMII)	0.5W		DB1-88E6250-1	Yes	1K	64	3mm x 3mm	64-QFN	Yes: 1 PHY Port	Yes	Yes

Link Street® - Fast Gigabit Ethernet Switches

SOHO Switching	Number of Ports	Port Configuration	Power	I-Temp	Evaluation Board Part Numbers	Audio Video Bridging/ IEEE 1588	MAC Size	IEEE 802.1Q Dynamic VLANs Supported	Package Size	Package Type	100BASE-FX Support	QoS IEEE 802.1p Priority, 4 Queues per Port	SNMP, RMON Network Management Support
88E6045 4FE+2GE Ethernet Switch	6	4 FE PHYs GMII/SGMII	1.0W		DB-88E6095-8F3GC		1K	64	20mm x 20mm	176-QFP		Yes	Yes
88E6046 4FE+2GE Ethernet Switch	6	4 FE PHYs GMII/RGMII/ SGMII	1.0W	Yes	DB-88E6046-1		1K	64	20mm x 20mm	176-QFP		Yes	Yes
88E6092/95 8FE+3GE Ethernet Switch	11	8 FE PHYs GMII/SGMII	1.5W	88E6095 only	DB-88E6095-8F3GC		8K	256	20mm x 20mm	176-QFP		Yes	Yes

Link Street® - Fast Gigabit Ethernet Switches

SOHO Switching	Number of Ports	Port Configuration	Power	I-Temp	Evaluation Board Part Numbers	Audio Video Bridging/ IEEE 1588	MAC Size	IEEE 802.1Q Dynamic VLANs Supported	Package Size	Package Type	100BASE-FX Support	QoS IEEE 802.1p Priority, 4 Queues per Port	SNMP, RMON Network Management Support
88E6095F 8FE+3GE Ethernet Switch	11	8 FE PHYs GMII/SGMII	1.5W	Yes	DB-88E6095-8F3GC		8K	256	24mm x 24mm	216-QFP	Yes: 8 PHY Ports	Yes	Yes
88E6096/97 8FE+3GE Ethernet Switch	11	8 FE PHYs GMII/RGMII/ SGMII	1.5W	88E6097 only	DB-88E6097-8F3GC		8K	4096	20mm x 20mm	176-QFP		Yes	Yes
88E6097F 8FE+3GE Ethernet Switch	11	8 FE PHYs GMII/RGMII/ SGMII	1.5W	Yes	DB-88E6097-8F3GC		8K	4096	24mm x 24mm	216-QFP	Yes: 8 PHY Ports	Yes	Yes
88E6240 4FE + 3GE Ethernet Switch with EEE & Sync-E	7	4 FE PHYs 1 GE PHY 1 Serdes 1 RGMII/MII/ RMII 1 GMII/ RGMII/MII/ RMII	1.1W		DB1-88E6240-1	Yes	8K	4096	14mm x 14mm	128-QFP	Yes	Yes	Yes

Link Street® - Gigabit Ethernet Switches

SOHO Switching	Number of Ports	Port Configuration	Power	I-Temp	Evaluation Board Part Numbers	Audio Video Bridging/ IEEE 1588	MAC Size	IEEE 802.1Q Dynamic VLANs Supported	Package Size	Package Type	1000BASE-X	QoS IEEE 802.1p Priority, 4 Queues per Port	SNMP, RMON Network Management Support
88E6121 3-Port Gigabit Ethernet Switch	3	2 GE PHYs 1 GMII	1.5W	Yes	DB-88E6122-6G		1K	64	14mm x 20mm	128-QFP		Yes	Yes
88E6122 6-Port Gigabit Ethernet Switch	6	2 GE PHYs 3 SerDes 1 GMII	2.0W	Yes	DB-88E6122-6G		1K	64	14mm x 20mm	128-QFP	Yes	Yes	Yes

Link Street® - Gigabit Ethernet Switches

SOHO Switching	Number of Ports	Port Configuration	Power	I-Temp	Evaluation Board Part Numbers	Audio Video Bridging/ IEEE 1588	MAC Size	IEEE 802.1Q Dynamic VLANs Supported	Package Size	Package Type	1000BASE-X	QoS IEEE 802.1p Priority, 4 Queues per Port	SNMP, RMON Network Management Support
88E6131 8-Port Gigabit Ethernet Switch	8	3 GE PHYs 4 SerDes 1 GMII	2.7W	Yes	DB-88E6131-8G		1K	256	20mm x 20mm	144-QFP	Yes	Yes	Yes
88E6152/55 6-Port Gigabit Ethernet Switch	6	6 SerDes or 5 SerDes 1 GMII	1.2W		DB-88E6185-10G		8K	256	14mm x 20mm	128-QFP	Yes	Yes	Yes
88E6161 6-Port Gigabit Ethernet Switch	6	5 GE PHYs 1 GMII/RGMII/ SerDes or 4 GE PHYs 2 GMII/RGMII/ SerDes	2.5W	Yes	DB-88E6161-1		1K	64	24mm x 24mm	216-QFP	Yes	Yes	Yes
88E6165 6-Port Gigabit Ethernet Switch	6	5 GE PHYs 1 GMII/RGMII/ SerDes or 4 GE PHYs 2 GMII/RGMII/ SerDes	2.5W	Yes	DB-88E6165-1		8K	4096	24mm x 24mm	216-QFP	Yes	Yes	Yes
88E6171R 7-Port Gigabit Ethernet Switch	7	5 GE PHYs 2 RGMII/MII	2.5W		DB1-88E6171R-1		1K	64	14mm x 14mm	128-QFP		Yes	Yes
88E6171 7-Port Gigabit Ethernet Switch	7	5 GE PHYs 2 GMII/RGMII/ MII	2.5W		DB1-88E6171R-1		1K	64	20mm x 20mm	176-QFP		Yes	Yes
88E6172 7-Port Gigabit Ethernet Switch with EEE	7	5 GE PHYs 1 RGMII/MII/ RMII 1 GMII/ RGMII/MII/ RMII	2.2W		DB1-88E6176-1		8K	4096	14mm x 14mm	128-QFP		Yes	Yes
88E6175R 7-Port Gigabit Ethernet Switch	7	5 GE PHYs 2 RGMII/MII	2.5W		DB1-88E6175R-1		8K	4096	14mm x 14mm	128-QFP		Yes	Yes
88E6175 7-Port Gigabit Ethernet Switch	7	5 GE PHYs 2 GMII/RGMII/ MII	2.5W		DB1-88E6175R-1		8K	4096	20mm x 20mm	176-QFP		Yes	Yes

Link Street® - Gigabit Ethernet Switches

SOHO Switching	Number of Ports	Port Configuration	Power	I-Temp	Evaluation Board Part Numbers	Audio Video Bridging/ IEEE 1588	MAC Size	IEEE 802.1Q Dynamic VLANs Supported	Package Size	Package Type	1000BASE-X	QoS IEEE 802.1p Priority, 4 Queues per Port	SNMP, RMON Network Management Support
88E6176 7-Port Gigabit Ethernet Switch with EEE	7	5 GE PHYs 1 Serdes 1 RGMII/MII/ RMII 1 GMII/ RGMII/MII/ RMII	2.2W		DB1-88E6176-1		8K	4096	14mm x 14mm	128-QFP	Yes	Yes	Yes
88E6182/85 10-Port Gigabit Ethernet Switch	10	10 SerDes or 9 SerDes 1 GMII	1.5W	88E6185 only	DB-88E6185-10G		8K	256	14mm x 20mm	128-QFP	Yes	Yes	Yes
88E6350R 7-Port AVB Gigabit Ethernet Switch	7	5 GE PHYs 2 RGMII/MII	2.5W	Yes	DB1-88E6350R-1	Yes	1K	64	14mm x 14mm	128-QFP		Yes	Yes
88E6350 7-Port AVB Gigabit Ethernet Switch	7	5 GE PHYs 2 GMII/RGMII/ MII	2.5W		DB1-88E6350R-1	Yes	1K	64	20mm x 20mm	176-QFP		Yes	Yes
88E6351 7-Port AVB Gigabit Ethernet Switch with Sync-E	7	5 GE PHYs 2 GMII/RGMII/ MII	2.5W	Yes	DB1-88E6350R-1	Yes	8K	4096	20mm x 20mm	176-QFP		Yes	Yes
88E6352 7-Port AVB Gigabit Ethernet Switch with EEE & Sync-E	7	5 GE PHYs 1 Serdes 1 RGMII/MII/ RMII 1 GMII/ RGMII/MII/ RMII	2.2W		DB1-88E6352-1	Yes	8K	4096	14mm x 14mm	128-QFP	Yes	Yes	Yes

PRESTERA® DX

Switching

DX Series

	Part Numbers	Port Configuration	Type	Evaluation Boards	Number of Ports	Package Size	Package Type	I-Temp
Prestera-DX107 10-Port Gigabit Ethernet Packet Processor	98DX107-xx-LKJ	10 SGMII	Layer 2/3	DB-DX107-10G, RD-DX107-48F4G	10	14mm x 20mm	128-LQFP	Yes
Prestera-DX160 16-Port Gigabit Ethernet Packet Processor	98DX160-xx	16 SGMII	Layer 2	RD-DX240-24G	16	31mm x 31mm	458-HSBGA	
Prestera-DX167 16-Port Gigabit Ethernet Packet Processor	98DX167-xx	16 SGMII	Layer 2/3	RD-DX247-24G	16	31mm x 31mm	458-HSBGA	Yes
Prestera-DX240 24-Port Gigabit Ethernet Packet Processor	98DX240-xx	24 SGMII	Layer 2	RD-DX240-24G	24	31mm x 31mm	458-HSBGA	
Prestera-DX249 24-Port Gigabit Ethernet with 2 HX Ports Packet Processor	98DX249-xx	24 SGMII, 2 HX	Layer 2	DB-DX249-24G-2HX	26	31mm x 31mm	480-HSBGA	
Prestera-DX253 24-Port Gigabit Ethernet Packet Processor	98DX253-xx	24 SGMII	Layer 2/3	DB-DX273-24G3XG, RD-DX273-48G2XG	24	37.5mm x 37.5mm	788-HSBGA	Yes
Prestera-DX269 24-Port Gigabit Ethernet with 2 HX/HGS Ports Packet Processor	98DX269-xx	24 SGMII, 3 HX/ XAUI	Layer 2	DB-DX269-24G-2HX-IB	27	37.5mm x 37.5mm	788-HSBGA	
Prestera-DX273 24-Port Gigabit Ethernet with 3 HGS Ports Packet Processor	98DX273-xx	24 SGMII, 3 XAUI	Layer 2/3	DB-DX273-24G3XG, RD-DX273-48G2XG	27	37.5mm x 37.5mm	788-HSBGA	
Prestera-DX5128 24-Port Gigabit Ethernet with 4 10GE Ports Packet Processor	98DX5128-xx	24 SGMII, 4 XAUI	Layer 3	DB-DX3-6XG-4HGS, RD-DX3-48GE-4HGS	28	35mm x 35mm	1138-FCBGA	-

PRESTERA® DX

Switching	Part Numbers	Port Configuration	Type	Evaluation Boards	Number of Ports	Package Size	Package Type	I-Temp
Prestera-DX8110 10-Port 10Gigabit Ethernet Packet Processor	98DX8110-xx	10 XAUI	Layer 3	DB-DX3-6XG-4HGS, RD-DX3-48GE-4HGS	10	35mm x 35mm	1138-FCBGA	
Prestera-DXx24 24-Port Gigabit Ethernet Packet Processor	98DX324-A0-LKJ2C000, 98DX224-A0-LKJ2C000	6 QSGMII	Layer 2	RD-DX-24G-A RD-DX-22GE2C-A	24	14mm x 20mm	LQFP	No
Prestera-DXx16 16-Port Gigabit Ethernet Packet Processor	98DX316-A0-LKJ2C000, 98DX216-A0-LKJ2C000	4 QSGMII	Layer 2	RD-DX-16UNM	16	14mm x 20mm	LQFP	No
Prestera-DXx08 8-Port Gigabit Ethernet Packet Processor	98DX308-A0-LKJ2C000, 98DX208-A0-LKJ2C000	2 QSGMII	Layer 2	RD-DX-8G-A	8	14mm x 20mm	LQFP	No

PRESTERA® CX

Switching	Part Numbers	Port Configuration	Type	Evaluation Boards	Number of Ports	Package Size	Package Type	I-Temp
CX Series Packet Processors								
Prestera-CX8248	98CX8248	48 RXAUI	L3	RD-CX-48XG	48	40mm x 40mm	HFCBGA	
Prestera-CX8234	98CX8234	32 RXAUI 4 * 40GbE	L3	DB-CX-48XG	32	40mm x 40mm	HFCBGA	

Intelligent Ethernet MAC

Switching	Part Numbers	Port Configuration	Number of Ports	MAC Speed	Uplink Port	Jumbo Frames	Package Size	# Pins	Package Type	I-Temp	Ball Pitch	Evaluation Boards
Gigabit Ethernet MAC Controllers												
Prestera-MV82104-Cx 4x1 GE Gigabit Ethernet MAC Controller	MV82104-Cx	SGMII	4	10/100/1000 Mbps	SPI 4.2	Yes	35mm x 35mm	672	HSBGA		1.0mm	
Prestera-MV82110-Cx 10x1 GE Gigabit Ethernet MAC Controller (SGMII <-> SPI-4.2)	MV82110-Cx	SGMII	10	10/100/1000 Mbps	SPI 4.2	Yes	35mm x 35mm	672	HSBGA		1.0mm	
Prestera-MV82210-Cx 1x10 GE Gigabit Ethernet MAC Controller (XAUI <-> SPI-4.2)	MV82210-Cx	XAUI	1	10 Gbps	SPI 4.2	Yes	35mm x 35mm	672	HSBGA		1.0mm	
Secure MAC/PHY												
Prestera X2220 Integrated 10GbE XAUI/XFI Secure MAC/PHY with LinkCrypt technology	98X2220	XAUI/XFI	4	10 Gbps	XAUI	Yes	21mm x 21mm	400	FCBGA		1.0mm	

DISCOVERY VI

System Controllers

Discovery VI MV64660
PowerPC System Controllers

Part Numbers	CPU Interface	I/O Support	Memory	Device Support	On-Board SRAM	Frequency	Voltage	Package Size	Package Type	Ball Pitch	I-Temp	Evaluation Boards	Software
MV64660	PowerPC 60x and MPX	1 x 32-Bit, PCI-X 1 x 4 PCIe, 1x4 OR 4x1 PCIe,3 x GbE (2 x SGMII), 2 x UART, 2 x USB, 1x SATA	DDR2 64/72-Bits 533MHz, Up to 16 GB	16-Bit, 166 MHz, 5 Chip Selects	N/A	240 MHz	1.2V Core, 1.8V 2.5V/ 3.3V I/O	35mm x 35mm	880-BGA	1.0mm		DB-64660A0-2 MPC7448, DB-64660A0-MPC7448, DB-64660A0-IBM750CL, DB-64660A0-IBM750FL, DB-64660A0-IBM750GL	U-Boot (1.1.4), VxWorks 5.5/6.3, Linux 2.6.x

DISCOVERY V

System Controllers

Discovery V MV64560
PowerPC System Controllers

Part Numbers	CPU Interface	I/O Support	Memory	Device Support	On-Board SRAM	Frequency	Package Size	Package Type	Ball Pitch	I-Temp	Evaluation Boards	Software
MV64560	PowerPC 60x and MPX	1 x 64-Bit PCI-X, 1 x 32-Bit PCI-X OR 1 x 4 PCIe, 3 x GbE (2 x SGMII), 2 x UART, 2 x USB	DDR/DDR2 64/72-Bits 400MHz, Up to 8 GB	16-Bit, 166 MHz, 5 Chip Selects	N/A	200 MHz	35mm x 35mm	840-BGA	1.0mm	Yes	DB-64560A0-IBM750GL, DB-64560A0-IBM750FL, DB-64560 A0-2XMPC7448, DB-64560A0-IBM750CXr, DB-64560A0-MPC7447A, DB-64560A0-MPC7448	U-Boot (1.1.4), VxWorks 5.5/6.3, Linux 2.6.x

DISCOVERY III

System Controllers

	Part Numbers	CPU Interface	I/O Support	Memory	Device Support	On-Board SRAM	Frequency	Package Size	Package Type	Ball Pitch	I-Temp	Evaluation Boards	Software
Discovery III MV64460 PowerPC System Controllers	MV64460	PowerPC	2 x 64-Bit PCI-X, 3 x GbE, 2 x MPSC	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	2 Mb	200 MHz	35mm x 35mm	844-BGA	1.0mm	Yes	DB-64460B1-IBM750GX-S, DB-64460B1-MPC7447A, DB-64460B1-MPC7448-S, DB-64460B1-2XMPC7447A-S	Low-Level VxWorks® and Linux Drivers, PMON/2000 (Opsycon), Reference BSP - Linux, VxWorks
Discovery III MV64461 PowerPC System Controllers	MV64461	PowerPC 60x and MPX	2 x 32-Bit PCI-X, 2 x GbE, 2 x MPSC	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	2 Mb	200 MHz	35mm x 35mm	844-BGA	1.0mm		Use Evaluation board for MV64460	VxWorks, Linux Drivers, PMON/2000 (Opsycon), Reference BSP - Linux, VxWorks
Discovery III MV64462 PowerPC System Controllers	MV64462	PowerPC 60x and MPX	1 x 64-Bit PCI-X, 1 x 32-Bit PCI-X, 1 x GbE, 2 x MPSC	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	N/A	200 MHz	35mm x 35mm	844-BGA	1.0mm		Use Evaluation board for MV64460	VxWorks, Linux Drivers, PMON/2000 (Opsycon), Reference BSP - Linux, VxWorks
Discovery III MV64440 MIPS System Controllers	MV64440	MIPS 64-Bit SysAD	2 x 32-Bit PCI-X, 2 x GbE, 2 x MPSC	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	2 Mb	200 MHz	35mm x 35mm	844-BGA	1.0mm		DB-64440B1-RM7000C	Low-Level VxWorks and Linux Drivers, Reference BSP - VxWorks
Discovery III MV64441 MIPS System Controllers	MV64441	MIPS 64-Bit SysAD	2 x 32-Bit PCI-X, 2 x GbE, 2 x MPSC	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	2 Mb	200 MHz	35mm x 35mm	844-BGA	1.0mm		Use Evaluation board for MV64440	Low-Level VxWorks and Linux Drivers, Reference BSP - VxWorks
Discovery III MV64442 MIPS System Controllers	MV64442	MIPS 64-Bit SysAD	1 x 64-Bit PCI-X, 1 x 32-Bit PCI-X, 1 x GbE, 2 x MPSC	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	N/A	200 MHz	35mm x 35mm	844-BGA	1.0mm		Use Evaluation board for MV64440	Low-Level VxWorks and Linux Drivers, Reference BSP - VxWorks

Fast Ethernet (FE) PHY

Transceivers	Number of Ports	10/100BASE-T	100BASE-FX	MII	RMII	SMII	SSSMII	RGMII	DDR-SSSMII	Internal Regulator	Virtual Cable Tester	Programmable LED	JTAG	I-Temp	RoHS 6/6, Green*	Production	Package Type
Single-Port Devices																	
88E3015 10/100BASE-T Fast Ethernet PHY	1	Yes	Yes	Yes				Yes		Yes	Yes	Yes			R	Yes	56-QFN
88E3016 10/100BASE-T Fast Ethernet PHY	1	Yes	Yes					Yes		Yes	Yes	Yes	Yes		R	Yes	64-QFN
88E3018 10/100BASE-T Fast Ethernet PHY	1	Yes	Yes	Yes				Yes		Yes	Yes	Yes	Yes	Yes	R	Yes	64-QFN
88E3019 10/100BASE-T Fast Ethernet PHY	1	Yes		Yes	Yes			Yes			Yes	Yes			G	Yes	32-QFN
Octal-Port Devices																	
88E3082 10/100BASE-T Octal PHY	8	Yes	Yes		Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	R	Yes	224-TFBGA
88E3083 10/100BASE-T Octal PHY	8	Yes	Yes			Yes	Yes		Yes	Yes	Yes	Yes	Yes		R	Yes	128-LQFP

ALASKA® Series

Transceivers

	Number of Ports	10/100/1000BASE-T	100BASE-FX	1000BASE-X	SGMII (Line)	SFP	MII	GMII	RGMII	SGMII (MAC)	TBI	RTBI	SerDes	QSGMII	Internal Regulator	Integrated Passives	Virtual Cable Tester	Programmable LED	JTAG	125MHz CLK OUT	I-Temp	Energy Efficient Ethernet (EEE)	RoHS 6/6, Green*	Production	Package Type
Single-Port Devices																									
Alaska 88E1111 10/100/1000BASE-T PHY with multiple MAC Interfaces	1	Yes		Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes				Yes	Yes	Yes	Yes	Yes		R	Yes	Multiple Packages
Alaska 88E1112 10/100/1000BASE-T PHY with Dual SERDES/SGMII	1	Yes	Yes	Yes	Yes	Yes				Yes			Yes				Yes	Yes			Yes		R	Yes	64-QFN
Alaska 88E1113 Fiber Transceiver	1		Yes	Yes		Yes				Yes			Yes				Yes	Yes					R	Yes	64-QFN
Alaska 88E1114 10/100/1000BASE-T PHY with SERDES/SGMII	1	Yes	Yes	Yes	Yes					Yes			Yes				Yes	Yes					R	Yes	64-QFN
Alaska 88E1116R 10/100/1000BASE-T PHY with RGMII	1	Yes							Yes						with PNP	Yes	Yes	Yes	Yes	Yes				R	Yes	64-QFN
Alaska 88E1118R 10/100/1000BASE-T PHY with RGMII	1	Yes							Yes						with PNP	Yes	Yes	Yes	Yes	Yes	Yes			R	Yes	64-QFN
Alaska 88E1119R 10/100/1000BASE-T PHY with GMII	1	Yes					Yes	Yes							with PNP	Yes	Yes	Yes	Yes	Yes	Yes	Yes		G	Yes	72-QFN
Alaska 88E1310 10/100/1000BASE-T PHY with RGMII	1	Yes							Yes						LDO	Yes	Yes	Yes		Yes				G	Yes	48-QFN
Alaska 88E1318 10/100/1000BASE-T PHY with RGMII	1	Yes							Yes						LDO	Yes	Yes	Yes		Yes				G	Yes	48-QFN
Alaska 88E1310S 10/100/1000BASE-T PHY with RGMII	1	Yes							Yes						LDO	Yes	Yes	Yes		Yes				G	Yes	48-QFN

*RoHS 6/6 + Halogen-Free

ALASKA® Series

Transceivers

	Number of Ports	10/100/1000BASE-T	100BASE-FX	1000BASE-X	SGMII (Line)	SFP	MII	GMII	RGMII	SGMII (MAC)	TBI	RTBI	SerDes	QSGMII	Internal Regulator	Integrated Passives	Virtual Cable Tester	Programmable LED	JTAG	125MHz CLK OUT	I-Temp	Energy Efficient Ethernet (EEE)	RoHS 6/6, Green*	Production	Package Type
Alaska 88E1318S 10/100/1000BASE-T PHY with RGMII	1	Yes							Yes						LDO	Yes	Yes	Yes		Yes			G	Yes	48-QFN
Alaska 88E1510 EEE 10/100/1000BASE-T PHY with RGMII	1	Yes							Yes						Switching Regulator	Yes	Yes	Yes		Yes	Yes	Yes	G	Yes	48-QFN
Alaska 88E1512 EEE 10/100/1000BASE-T PHY with RGMII, SGMII, Copper/Fiber Automedia Detect	1	Yes	Yes	Yes	Yes	Yes			Yes	Yes					Switching Regulator	Yes	Yes	Yes		Yes	Yes	Yes	G	Yes	56-QFN
Alaska 88E1518 EEE 10/100/1000BASE-T PHY with RGMII	1	Yes							Yes						Switching Regulator	Yes	Yes	Yes		Yes		Yes	G	Yes	48-QFN
Dual-Port Devices																									
Alaska 88E1121R 10/100/1000BASE-T PHY with RGMII	2	Yes							Yes							Yes	Yes	Yes	Yes				R	Yes	100-TQFP
Alaska 88E1322 10/100/1000BASE-T PHY with SGMII, SyncE, IEEE 1588 Time Stamping, Copper/Fiber Automedia Detect	2	Yes	Yes	Yes	Yes					Yes						Yes	Yes	Yes	Yes	Yes	Yes		G	Yes	196 TFBGA
Quad-Port Devices																									
Alaska 88E1143 100/1000Mbps Fiber Transceiver	4		Yes	Yes	Yes			Yes	Yes								Yes	Yes	Yes		Yes		R	Yes	364-PBGA
Alaska 88E1145 10/100/1000BASE-T PHY with SGMII /SERDES	4	Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes				Yes	Yes	Yes		Yes		R	Yes	364-HSBGA
Alaska 88E1240 10/100/1000BASE-T PHY with SGMII	4	Yes	Yes	Yes						Yes							Yes	Yes	Yes				R	Yes	Multiple Packages

*RoHS 6/6 + Halogen-Free

ALASKA® Series

Transceivers	Number of Ports	10/100/1000BASE-T	100BASE-FX	1000BASE-X	SGMII (Line)	SFP	MII	GMII	RGMII	SGMII (MAC)	TBI	RTBI	SerDes	QSGMII	Internal Regulator	Integrated Passives	Virtual Cable Tester	Programmable LED	JTAG	125MHz CLK OUT	I-Temp	Energy Efficient Ethernet (EEE)	RoHS 6/6, Green*	Production	Package Type
Alaska 88E1340 10/100/1000BASE-T PHY with SGMII, QSGMII, Copper/ Fiber Automedia Detect, SyncE, IEEE 1588 Time-stamping	4	Yes	Yes	Yes	Yes	Yes				Yes				Yes		Yes	Yes	Yes	Yes				G	Yes	196-TFBGA
Alaska 88E1340S 10/100/1000BASE-T PHY with SGMII, QSGMII, Copper/ Fiber Automedia Detect, SyncE, IEEE 1588 Time-stamping	4	Yes	Yes	Yes	Yes	Yes				Yes				Yes		Yes	Yes	Yes	Yes			Yes	G	Yes	196-TFBGA
Alaska 88E1543 EEE 10/100/1000BASE-T PHY with SGMII	4	Yes	Yes	Yes	Yes					Yes						Yes	Yes	Yes	Yes			Yes	G	Yes	128-LQFP
Alaska 88E1545 EEE 10/100/1000BASE-T PHY with QSGMII	4	Yes			Yes									Yes		Yes	Yes	Yes	Yes			Yes	G	Yes	128-LQFP

*RoHS 6/6 + Halogen-Free

ALASKA® X Series

Transceivers	Number of Ports	10GBASE-SR/ER/LR	10GBASE-SW/EW/LW	10GBASE-LRM	100Mb/1Gb/10GBASE-T	XAUI	XGMII	RXAUI	XFI	SFI	XENPAK	X2	XFP	SFP/SFP	Twinax	CR	Programmable LED	JTAG	Reference Clock	I-Temp	RoHS 6/6, Green*	Production	Package Type
Single-Port Devices																							
Alaska X 88X2010 XAUI to XFI Serial 10G SERDES (LAN PHY)	1	Yes				Yes						Yes	Yes	Yes				Yes	Yes	156.25/159.375 MHz		Yes	Yes	256-TFBGA
Alaska X 88X2011 XAUI to XFI Serial 10G SERDES (WAN & LAN PHY)	1	Yes	Yes			Yes						Yes	Yes	Yes				Yes	Yes	156.25/159.375 MHz, 155.52 MHz (WIS)	Yes	Yes	Yes	256-TFBGA

*RoHS 6/6 + Halogen-Free

ALASKA® X Series

Transceivers	Number of Ports	10GBASE-SR/ER/LR	10GBASE-SW/EW/LW	10GBASE-LRM	100Mb/1Gb/10GBASE-T	XAUI	XGMII	RXAUI	XFI	SFI	XENPAK	X2	XFP	SFP/SFP+	Twinax	CR	Programmable LED	JTAG	Reference Clock	I-Temp	RoHS 6/6, Green*	Production	Package Type
Alaska X 88X2012 XAUI to XFI Serial 10G SERDES (LAN PHY)	1	Yes					Yes						Yes				Yes	Yes	156.25/159.375 MHz		Yes	Yes	256-TFBGA
Alaska X 88X2013 XAUI to XFI Serial 10G SERDES (WAN & LAN PHY)	1	Yes	Yes				Yes						Yes				Yes	Yes	156.25/159.375 MHz, 155.52 MHz (WIS)		Yes	Yes	256-TFBGA
XGXS Devices																							
Alaska X 88X2040 10GE XAUI and 4 Channel 3.125 Gigabit per second SERDES	1					Yes	Yes				Yes	Yes					Yes	Yes	62.5/125/156.25/159.375 MHz		Yes	Yes	256-TFBGA
Alaska X 88X2080 Dual XAUI to XGMII SERDES	2					Yes	Yes				Yes	Yes					Yes	Yes	62.5/125/156.25/159.375 MHz		Yes	Yes	448-PBGA

*RoHS 6/6 + Halogen-Free

KYOTO Series

Video Processors and Hybrid Demodulators

Part Number	Input Ports	Output Ports	OSD Support	Embedded CPU	Memory Interface	External FLASH	Voltage	Package Size	Package Type	I-Temp	Ball Pitch	Ordering Part #
QDEO™ Video Processors												
88DE2710 Adaptive Digital Video Format Converter with Qdeo™ Video Processing	88DE2710	3	2	External	None	32bit DDR1 @ 200Mhz	Not Required	1.2V Core, 3.3V/2.5V I/O	19mm x 19mm	324-BGA		1.0mm	88DE2710-A1-BCY1C000
88DE2750 Adaptive Digital Video Format Converter with Qdeo™ Video Processing	88DE2750	1	1	External	None	'-2' 16bit DDR2 @ 200Mhz, '-4' 16bit DDR2 @ 400Mhz	Not Required	1.0V core, 3.3V/1.8V I/O	17mm x 17mm	256-BGA		1.0mm	88DE2750-B0-BIF2C200 (200MHz), 88DE2750-B0-BIF2C000 (400MHz)
88DE2755 Adaptive Digital Video Format Converter SOC with Qdeo™ Video Processing. Integrated v1.4 HDMI Rx and Tx, with 3D support.	88DE2755	2	1	Internal and External	PJ1 ARM v5TE-compliant Marvell Processor Core @400Mhz with 16KB IRAM and 16KB Data RAM	'-2' 16bit DDR2 @ 200Mhz, '-4' 16bit DDR2 @ 400Mhz, 16/8 bit DDR3 @ 800Mhz	Supports SPI and Nand for onchip s/w execution	1.0V core, 3.3V/1.8V I/O	17mm x 17mm	256-BGA		1.0mm	88DE2755-B0-BIF2C000

BALI Series

Video Processors and Hybrid Demodulators

Part Number	Input Ports	Output Ports	OSD Support	Embedded CPU	Memory Interface	External FLASH	Voltage	Package Size	Package Type	I-Temp	Ball Pitch	Ordering Part Numbers
Hybrid Demodulator												
88DE8020 Single Chip Hybrid Demodulator for DVB-T/C/NTSC/PAL/SECAM	88DE8020	1	1	Not Appli cable	None	Not Required	Not Required		7mm x 7mm	48-QFN			88DE8020XX-NNB2C000

BALI Series

Video Processors and Hybrid Demodulators

	Part Number	Input Ports	Output Ports	OSD Support	Embedded CPU	Memory Interface	External FLASH	Voltage	Package Size	Package Type	I-Temp	Ball Pitch	Ordering Part Numbers
88DE8010 Single Chip Hybrid Demodulator for DVB-T/C/NTSC/PAL/SECAM	88DE8010	1	1	Not Applicable	None	Not Required	Not Required		7mm x 7mm	48-QFN			88DE8010-XX-NNB2C000
88DE8500 Single Chip Hybrid Tuner for Worldwide markets	88DE8500	1	1	Not Applicable	None	Not Required	Not Required		5mm x 5mm	32-QFN			88DE8500-A7-NAJ2C000

Wireless

Wireless	Part Number	Wireless Technologies Support	Interface Support	Package Type	Package Size	Ball Pitch	Embedded CPU	Temp	Evaluation Boards	Process
88W8786 Single-Chip 1x1 802.11n/b/g	88W8786	802.11 b/g/n	SDIO 2.0, USB 3.0	QFN	8mm x 8mm	400um	Yes	0 to +70C	RD-88W-USB-8786-A1	65nm
88W8366 3x3 802.11 a/b/g/n	88W8366	802.11 a/b/g/n	PCIe 1.1	88W8366	8mm x 8mm	500um	Yes	0 to +70C	CD-88W-AP95-A0	90nm
88W8063 3x3 802.11 a/b/g/n	88W8063	802.11 a/b/g/n	PCIe 1.1	VFBGA		650um	Yes	0 to +70C	CD-88W-AP95-A0	90nm

AVASTAR™ Series

Wireless	Part Number	Wireless Technologies Support	Interface Support	Package Type	Package Size	Ball Pitch	Embedded CPU	Temp	Evaluation Boards	Process
AVASTAR 8700 Family										
88W8764 Single Chip 4x4 802.11 a/b/g/n	88W8764	802.11 a/b/g/n	PCIe 1.1, USB 2.0	TFBGA	12mm x 12mm	650um	Yes	0 to +70C	RD-88W-AP-8764DR1-R0	55nm
88W8782 Single Chip 1x1 802.11 a/b/g/n	88W8782	802.11 b/g/n	SDIO 2.0, USB 2.0	QFN	8mm x 8mm	400um	Yes	0 to +70C	RD-88W-USB-8782-R0 RD-88W-SD-8782-R0	55nm
88W8787 Single-Chip 1x1 802.11 a/b/g/n + BT 3.0 + HS + FM Tx/Rx	88W8787	802.11 a/b/g/n 1x1 + BT 3.0 + HS + FM Tx/Rx	SDIO 2.0, UART	TFBGA, CSP	7mm x 7mm & Chip-scale	500um, 260um	Yes	-30 to +85C	RD-88W-USB-8787-GI-A2, RD-88W-SD-8787-AGI-A2	55nm
88W8790 Single chip BT 3.0 + HS + FM Tx/Rx	88W8790	BT 3.0 + HS + FM Tx/Rx	SDIO 2.0, GSPI, UART	TFBGA, CSP	5mm x 5mm & Chip-scale	500um, 280um	Yes	-30 to +85C	RD-88W-8790-A0	55nm

AVASTAR™ Series

Wireless

	Part Number	Wireless Technologies Support	Interface Support	Package Type	Package Size	Ball Pitch	Embedded CPU	Temp	Evaluation Boards	Process
88W8766 Single-Chip1x1 802.11 a/b/g/n + BT 4.0 Dual-mode	88W8766	802.11 a/b/g/n 1x1 + BT 4.0 Dual-mode	PCIe 1.1, USB 2.0	QFN	8mm x 8mm	400um	Yes	0 to +70C	RD-88W-HMC-8766SB2A-R0, RD-88W-HMC-8766DB2A-R0	55nm
88W8797 Single-Chip 2x2 802.11 a/b/g/n + BT 4.0 Dual-mode + FM Tx/Rx	88W8797	802.11 a/b/g/n 2x2 + BT 4.0 Dual-mode + FM Tx/Rx	SDIO 3.0, USB 2.0, HSIC, UART	TFBGA, CSP	9mm x 7.5mm & Chip-scale	400um, 260um	Yes	-30 to +85C	RD-88W-8797-AG1-R0	55nm

Marvell

A NEXT GENERATION SEMICONDUCTOR COMPANY

Founded in 1995, Marvell Technology Group Ltd. has operations worldwide and approximately 5,700 employees. Marvell's U.S. operating subsidiary is based in Santa Clara, California and Marvell has international design centers located in the U.S., Europe, Israel, Singapore and China. A leading fabless semiconductor company, Marvell ships over one billion chips a year. Marvell's expertise in microprocessor architecture and digital signal processing, drives multiple platforms including high volume storage solutions, mobile and wireless, networking, consumer and green products. World class engineering and mixed-signal design expertise helps Marvell deliver critical building blocks to its customers, giving them the competitive edge to succeed in todays dynamic market.

Key Markets

MOBILE AND WIRELESS:
From laptops to smart phones to gaming devices and from the home to the office to a hotel room: wireless and mobile technologies now touch nearly every facet of our lives. Marvell offers industry leading power management for extended battery life with exceptional ease of use and security. Marvell solutions power the complete value chain of mobile and wireless devices, providing full-featured, media-rich experiences and robust services to everyone from the business user to the consumer.

STORAGE SOLUTIONS: Marvell is the market leader in data storage silicon solutions spanning consumer, mobile, desktop and enterprise market segments. The company's storage solutions enable customers to engineer high- volume products for hard disk drives, tape drives, optical disks, and solid state drives, as well as host adaptors and bridges.

NETWORKING: Marvell networking products are designed for the utmost reliability and resiliency. From robust enterprise networking applications to consumer and small business solutions Marvell's networking products seamlessly power every point in the networking ecosystem and ensure that it just works.

CONSUMER SOLUTIONS: From industry-leading storage, networking, wireless and mobile technologies, to award- winning video processing products, Marvell's solutions power some of todays most cutting-edge consumer devices. Combined with a history of innovations in microprocessor architecture that have enabled high integration and scalability, Marvell technology empowers consumers to manage and consume content at home or on the go, without compromising performance.

GREEN TECHNOLOGY: Marvell is committed to developing green technology as both a supplier and user of technology to save energy and to help reduce our collective carbon footprint. With our digital Power Factor Correction (PFC) controllers, Marvell is using its power management expertise to take the lead in energy- efficient technology for AC/DC power supplies and low power LED and CFL lighting solutions.

Advantage

Marvell products come with complete reference designs, which include board layout designs, software, manufacturing diagnostic tools, documentation and other items, to assist customers with product evaluation and production. Marvell collaborates closely with customers to develop and deliver new leading-edge products for quick time-to-market. Marvell uses world-class semiconductor foundry and packaging services to reliably deliver high-volume and low-cost total solutions. For more information, visit our web site at www.marvell.com.

KEY FACTS

Founded: 1995

Stock Symbol: MRVL (NASDAQ)

Chairman, President and Chief Executive Officer: Dr. Sehat Sutardja

Worldwide Employment: Approximately 5,700

Net Revenues: $3.61 billion (fiscal 2011, ended January 31, 2011)

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