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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 (Note 1)	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	1.35v, 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	1.35v, 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, Windows® CE	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, Windows® CE	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, Windows® CE	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, Windows® CE	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, Windows® CE	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, Windows® CE	21mm x 21mm	0.65mm	Discrete	*	

* Note 1: 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 (Note 1)	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	*	
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

* Note 1: 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 (Note 1)	Special Note
PXA320 Family (continue)											
• 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	*	
• 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	*	

* Note 1: Parts available in temperature range -25C to 85C

PANTHEON & 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	0.65 mm		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	0.65 mm		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 (1x4 or 4x1), 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	1.0 mm	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 (1x4 or 4x1), 3 x USB, 4 x UART, 2 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	1.0 mm	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 [(1x4 or 4x1) + (1x1)], 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	1.0 mm		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	88F6321	ARM®v5TE Dual Core	2 x GbE, PCIe x 1, 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	1.0 mm		DB-88F6323-A1	u-boot, Linux, vxWorks and others
• **88F6322** SoC with Dual-Core Dual-Issue Marvell CPU	88F6322	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	1.0 mm		DB-88F6323-A1	u-boot, Linux, vxWorks and others
• **88F6323** SoC with Dual-Core Dual-Issue Marvell CPU	88F6323	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	1.0 mm		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	88F6281	ARM®v5TE Single-Core	PCIe x 1, 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 DDR2-800	19mm x 19mm	288 HSBGA	1.0 mm	Yes	RD-88F6281-A-BGA	u-boot, Linux, vxWorks and others
• **88F6192** SoC with Dual-Core Dual-Issue Marvell CPU	88F6192	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 DDR2-400	24mm x 24mm	216 LQFP	0.4 mm		RD-88F6192-A-QFP	u-boot, Linux, vxWorks and others
• **88F6180** SoC with Dual-Core Dual-Issue Marvell CPU	88F6180	ARM®v5TE Single-Core	PCIe x 1, 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 DDR2-400	13mm x 13mm	244 TSBGA	0.8 mm		DB-88F6180-A-BGA	u-boot, Linux, vxWorks and others
• **88F6280** SoC with Dual-Core Dual-Issue Marvell CPU	88F6280	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 DDR2-400	14mm x 20mm	128 LQFP	0.5 mm		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

Fast Ethernet Gateway-Routers	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 ARM9® 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		

PCI Express to 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 Part Number
• **88SB2211** PCI Express to PCI Bridge	88SB2211	1	128 Bytes	PCIe 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

Synchronous Buck Regulator	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 (Note 2)
• MVPG16	MVPG16-NAE1	1.0A	1.0mA	3.0V to 5.5V	120mΩ	70mΩ	3mm x 4mm DFN-12	1MHz, Shutdown	Yes
• 88PG839	88PG839-NAE2	2.0A	25uA	2.7V to 5.5V	120mΩ	80mΩ	3mm x 4mm DFN-12	Enable, PGood, OVP, SS, 2.0MHz	Yes
• MVPG31	MVPG31-NAE1	2.0A	1.0mA	3.0V to 5.5V	120mΩ	70mΩ	3mm x 4mm DFN-12	1MHz, Shutdown	Yes
• 88PG877	88PG877-NFB1	5.0A	1.2mA	3.0V to 5.5V	9.5mΩ	7.5mΩ	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	70mΩ	35mΩ	3mm x 4mm QFN-18	Enable, PGood, OVP, SS, 500kHz	Yes

Synchronous Buck Regulator + LDO	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 (Note 2)
• MVPG15x	MVPG15x-NAE1	1.0A	1.7mA	3.0V to 5.5V	120mΩ	70mΩ	3mm x 4mm DFN-12	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown	Yes
• MVPG30x	MVPG30x-NAE1	2.0A	1.7mA	3.0V to 5.5V	120mΩ	70mΩ	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	67mΩ	21mΩ	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	67mΩ	21mΩ	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	67mΩ	21mΩ	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	67mΩ	21mΩ	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	67mΩ	21mΩ	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	150mΩ	100mΩ	3mm x 4mm DFN-12	250mA LDO, LDO output up to 5V, SS, Enable, 2.0MHz	Yes
• 88PG8318 (2 LDO)	88PG8318-NAE2	1.2A	85u A	2.7V to 5.5V	150mΩ	100mΩ	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	150mΩ	100mΩ	CSP	100mA LDO, 2.0 MHz, for Mobile applications	Yes
• 88PG8111	88PG8111-NXS2	500mA	25uA	2.7V to 5.5V	320mΩ	150mΩ	3mm x 3mm QFN-20	50mA LDO, 2.7 MHz, for Mobile applications	Yes

Note 2: Specifications over the -40C to 85C operating temperature ranges are assured by design, characterization, and correlation with statistical process controls.

DC-DC REGULATORS Series

Dual Synchronous Buck Regulator	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 (Note 2)
• **88PG8216**	88PG8216-NFE1	1.0A/1.5A	2.1mA	2.75V to 5.5V	81mΩ	37mΩ	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	81mΩ	37mΩ	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	81mΩ	37mΩ	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	81mΩ	37mΩ	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	333mΩ	210mΩ	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	320mΩ	150mΩ	3mm x 3mm QFN-20	50mA LDO, 2.7MHz, for Mobile applications	Yes

Note 2: Specifications over the -40C to 85C operating temperature ranges are assured by design, characterization, and correlation with statistical process controls.

LED Driver IC	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 compatible	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 compatible	OCP, OVP, OTP	8-pin SOIC

SATA Storage Controllers	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
• **88SE6145** PCIe x1 to 4 SATA 3Gb/s Ports and 1 PATA RAID Controller	88SE6145	4S1P	PCI Express x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	RAID 0/1	1.5W	14mm x 14mm	100 TQFN		N/A	DB-88SE6145
• **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	Yes	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	Yes	0.4mm	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	Yes	0.4mm	DB1-88SE9130--CPLD

SAS/SATA Storage Controllers	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 Command	Yes	Flash BIOS I/F	No	RAID 0/1	2W	16mm x 16mm	128 TQFP		N/A	DB-88SE6340
• **88SE6340** PCIe x1 to 4 SAS/SATA 3Gb/s Ports RAID Controller	88SE6340	4	PCI Express x1	Tag and Native Command	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 Command	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 Command	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 Command	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 Command	Yes	Flash BIOS I/F	Yes	N/A	4W	19mm x 19mm	324 TFBGA		1.0mm	DB-88SE6480
• **88SE9480** PCIe 2.0 x8 to 8 SAS/SATA 6Gb/s Ports RAID Controller	88SE9480	8	PCI Express 2.0 x8	Tag and Native Command	Yes	Flash BIOS I/F	No	RAID 0/1/10/5	~6W	23mm x 23mm	484 HSBGA		1.0mm	HA2VA 6800m-RC1Vxx

SATA Port Multiplier/Multiplexer	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		DB-88SM4140
• **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	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 or DB-88SA8052-H

SAS to SATA Protocol Converter	Part Numbers	SAS Port	SATA port	Data Rate	Internal Flash	Power	Package Size	Package Type	I-Temp	Evaluation Board Part Number
• **88SF6210B1** 3Gb/s SAS to SATA Protocol Convertor	88SF6210	2	1	SAS/SATA 3.0 Gb/s	320 Kbyte	1.5 W	12mm x 12mm	196 TFBGA		DB-88SF6210-R03

PRESTERA® DX Series

DX Series	Part Numbers	Port Configuration	Type	Evaluation Board Part Numbers	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	35.0mm x 35.0mm	1138-FCBGA	
• **Prestera-DX8110** 10-Port 10Gigabit Ethernet Packet Processor	98DX8110-xx	10 XAUI	Layer 3+	DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS	10	35.0mm x 35.0mm	1138-FCBGA	

DX Series Packet Processors with Integrated CPU	Part Numbers	Port Configuration	Type	Evaluation Board Part Numbers	Number of Ports	Package Size	Package Type	I-Temp
• **Prestera-DX1022** 24-Port Fast Ethernet Plus 4-Port FlexLink Packet Processor with 333MHz CPU	98DX1022-xx	3 SSSMII 4 SGMII	Layer 2/3+ Metro	DB-xCAT-24F4GP RD-xCAT-24F4G	28	27mm x 27mm	617-HSBGA	Yes
• **Prestera-DX2122** 24-Port Fast Ethernet Plus 4-Port FlexLink Packet Processor with 800MHz CPU	98DX2122-xx	4 SGMII	Layer 3+ Metro	DB-xCAT-24F4GP RD-xCAT-24F4G	28	27mm x 27mm	617-HSBGA	Yes
• **Prestera-DX3005** 10-Port Gigabit Ethernet Packet Processor with 333MHz CPU	98DX3005-xx	2 QSGMII 2 SGMII	Layer 2+	DB-xCAT-24G4GP RD-xCAT-48G4G	10	27mm x 27mm	617-HSBGA	No
• **Prestera-DX3026** 24-Port Gigabit Ethernet Plus 4-Port XG FlexLink Packet Processor with 333MHz CPU	98DX3026-xx	6 QSGMII 2 RXAUI 2 XAUI	Layer 2+	DB-xCAT-24G4GP RD-xCAT-48G4G	28	27mm x 27mm	617-HSBGA	Yes
• **Prestera-DX3032** 24-Port Gigabit Ethernet Plus 4-Port XG FlexLink Packet Processor with 333MHz CPU	98DX3032-xx	6 QSGMII 4 XAUI	Layer 2/3+ Metro	DB-xCAT-24G4GP RD-xCAT-48G4G	28	27mm x 27mm	617-HSBGA	Yes
• **Prestera-DX4122** 24-Port Gigabit Ethernet Plus 4-Port XG FlexLink Packet Processor with 800MHz CPU	98DX4122-xx	6 QSGMII 4 XAUI	Layer 3+ Metro	DB-xCAT-24G4GP RD-xCAT-48G4G	28	27mm x 27mm	617-HSBGA	Yes

PRESTERA® CX Series

CX Series Packet Processors	Part Numbers	Port Configuration	Type	Evaluation Board Part Numbers	Number of Ports	Package Size	Package Type	I-Temp	
• **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 MACs

Gigabit Ethernet MAC Controllers	Part Numbers	Port Configuration	Number of Ports	MAC Speed	Uplink Port	Jumbo Frames	Package Size	# Pins	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers	
• **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	Part Numbers	Port Configuration	Number of Ports	MAC Speed	Uplink Port	Jumbo Frames	Package Size	# Pins	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers	
• **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		

LINK STREET® Series

Link Street Fast Ethernet Switches	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
• **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 Port		
• **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 Port	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 Port	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 Port	Yes	Yes
• **88E6083** 10-Port Fast Ethernet Switc	10	8 PHYs + 2 MII	1.4W	Yes	RD-88E6083-1		2K	16	24mm x 24mm	216-QFP	Yes: 8 PHY Port	Yes	Yes
• **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

Link Street Fast + Gigabit Ethernet Switches	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
• **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 Port	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 Port	Yes	Yes

LINK STREET® Series

Link Street Gigabit Ethernet Switches	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
• **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
• **88E6123** 3-Port Gigabit Ethernet Switch	3	2 GE PHYs + 1 GMII/RGMII/SerDes	1.1W		DB-88E6123-1		1K	64	14mm x 20mm	128-QFP	Yes	Yes	Yes
• **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
• **88E6175R** 7-Port Gigabit Ethernet Switchh	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
• **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

Discovery™ VI Series

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 Board Part Numbers	Software
• **Discovery VI MV64660** PowerPC System Controllers	MV 64660	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 16GB	16-Bit, 166MHz, 5 Chip Selects	N/A	240 MHz	1.2V Core, 1.8V2.5V/ 3.3V I/O	35mm x 35mm	880-BGA	1.0mm		DB-64660A0-2MPC7448, 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 Series

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 Board Part Numbers	Software
• **Discovery V MV64560** PowerPC System Controllers	MV 64560	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 8GB	16-Bit, 166MHz, 5 Chip Selects	N/A	200 MHz	35mm x 35mm	840-BGA	1.0mm	Yes	DB-64560A0-IBM750GL, DB-64560A0-IBM750FL, DB-64560A0-2XMPC7448, 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 Series

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 Board Part Numbers	Software
• **Discovery III MV64460** PowerPC System Controllers	MV 64460	PowerPC	2 x 64-Bit PCI-X 3 x GbE, 2 x MPSC	DDR 400MHz, Up to 8GB	32-Bit, 133 MHz, 5 Chip Selects	2Mb	200MHz	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	MV 64461	PowerPC 60x and MPX	2 x 32-Bit PCI-X 2 x GbE, 2 x MPSC	DDR 400MHz, Up to 8GB	32-Bit, 133 MHz, 5 Chip Selects	2Mb	200MHz	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	MV 64462	PowerPC 60x and MPX	1 x 64-Bit PCI-X 1 x 32-Bit PCI-X 1 x GbE, 2 x MPSC	DDR 400MHz, Up to 8GB	32-Bit, 133 MHz, 5 Chip Selects	N/A	200MHz	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	MV 64440	MIPS 64-Bit SysAD	2 x 32-Bit PCI-X 2 x GbE, 2 x MPSC	DDR 400MHz, Up to 8GB	32-Bit, 133 MHz, 5 Chip Selects	2Mb	200MHz	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	MV 64441	MIPS 64-Bit SysAD	2 x 32-Bit PCI-X 2 x GbE, 2 x MPSC	DDR 400MHz, Up to 8GB	32-Bit, 133 MHz, 5 Chip Selects	2Mb	200MHz	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	MV 64442	MIPS 64-Bit SysAD	1 x 64-Bit PCI-X 1 x 32-Bit PCI-X 1 x GbE, 2 x MPSC	DDR 400MHz, Up to 8GB	32-Bit, 133 MHz, 5 Chip Selects	N/A	200MHz	35mm x 35mm	844-BGA	1.0mm		Use Evaluation board for MV64440	Low-Level VxWorks and Linux Drivers, Reference BSP - VxWorks

ALASKA® Series

Gigabit Ethernet (GbE) PHY	LINE INTERFACES: Number of Ports	10/100/1000BASE-T	100BASE-FX	1000BASE-X	SGMII	MAC INTERFACES: SFP	MII	GMII	RGMII	SGMII	TBI	RTBI	SerDes	QSGMII	POWER & FEATURES: 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				R	Yes	64-QFN
• **Alaska 88E1118R** 10/100/1000BASE-T PHY with RGMII	1	Yes							Yes						with PNP	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		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
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	Yes	Yes	G	Yes	196 TFBGA

* RoHS 6/6 + Halogen-Free

ALASKA® Series

Gigabit Ethernet (GbE) PHY (continue)	LINE INTERFACES					MAC INTERFACES								POWER & FEATURES											
	Number of Ports	10/100/1000BASE-T	100BASE-FX	1000BASE-X	SGMII	SFP	MII	GMII	RGMII	SGMII	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
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
• **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	
• **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

* RoHS 6/6 + Halogen-Free

ALASKA® Series

Fast Ethernet (FE) PHY (10/100Mbps)	LINE INTERFACES			MAC INTERFACES					POWER & FEAUTURES									
	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

* RoHS 6/6 + Halogen-Free

ALASKA® X Series

10 Gigabit Ethernet PHY	Number of Ports	10GBASE-SR/ER/LR	10GBASE-SW/EW/LW	10GBASE-LRM	XAUI	XGMII	RXAUI	XFI	SFI	XENPAK	X2	XFP	SFP/SFP+	Twinax	Programmable LED	JTAG	Reference Clock	I-Temp	RoHS 6/6, Green*	Production	Package Type
	LINE INTERFACES				MAC INTERFACES				MODULES						POWER & FEATURES						
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, 155.52MHz (WIS)	Yes	Yes	Yes	256-TFBGA
• **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, 155.52MHz (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/ 159.375MHz		Yes	Yes	256-TFBGA
• **Alaska X 88X2080** Dual XAUI to XGMII SERDES	2				Yes	Yes				Yes	Yes				Yes	Yes	62.5/125/156.25/ 159.375MHz		Yes	Yes	448-PBGA

* RoHS 6/6 + Halogen-Free

KYOTO Series

QDEO™ Video Processors	Part Numbers	Input Ports	Output Ports	OSD Support	Embedded CPU	Memory Interface	External FLASH	Voltage	Package Size	Package Type	I-Temp	Ball Pitch	Ordering Part Numbers
• **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	1.1V core, 3.3V/1.8V I/O	17mm x 17mm	256-BGA		1.0mm	88DE2755-B0-BIF2C000

BALI Series

Hybrid Demodulator	Part Numbers	Input Ports	Output Ports	OSD Support	Embedded CPU	Memory Interface	External FLASH	Voltage	Package Size	Package Type	I-Temp	Ball Pitch	Ordering Part Numbers
• **88DE8020** Single Chip Hybrid Demodulator for DVB-T/C/NTSC/PAL/SECAM	88DE8020	1	1	Not Applicable	None	Not required	Not required		7mm x 7mm	48 QFN			88DE8020XX-NNB2C000
• **88DE8010** Single chip Hybrid Demodulator for ATSC/QAM/NTSC	88DE80100	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

AVASTAR™ Series

Wireless	Part Number	Wireless Technologies Support	Interface Support	Package Type	Package Size	Ball Pitch	Embedded CPU	I-Temp		Evaluation Boards Part Numbers
• **88W8786** Single Chip 1x1 802.11 b/g/n	88W8786	802.11n/b/g	SDIO, USB	QFN	8mm x 8mm	400um	Yes	Yes		RD-88W-USB-8786-A1
• **88W8366 / 88W8063** 3x3 802.11 a/b/g/n	88W8366 88W8063	802.11 a/b/g/n	PCIe	TFBGA (88W8366) VFBGA (88W8063)	8mm x 8mm (88W8366)	500um (88W8366) 650um (88W8063)	Yes	Yes		CD-88W-AP95-A0
AVASTAR 8700 Family										
• **88W8764** Single Chip 4x4 802.11 a/b/g/n	88W8764	802.11 a/b/g/n	PCIe	TFBGA	12mm x 12mm	650um	Yes	Yes		
• **88W8782** Single Chip 1x1 802.11 a/b/g/n	88W8782	802.11 b/g/n	SDIO, USB	QFN	8mm x 8mm	400um	Yes	Yes		RD-88W-USB-8782-R0 RD-88W-SD-8782-R0
• **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, UART	TFBGA, CSP	7mm x 7mm & Chip-scale	500um, 260um	Yes	Yes		RD-88W-SD-8787-G1-A2 RD-88W-SD-8787-AG1-A2
• **88W8790** Single Chip BT 3.0 + HS + FM Tx/Rx	88W8790	BT 3.0 + HS + FM Tx/Rx	SDIO, GSPI, UART	TFBGA, CSP	5mm x 5mm & Chip-scale	500um, 280um	Yes	Yes		RD-88W-8790-A0

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 today's 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.
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Key Corporate Facts

Founded:
1995

Stock Symbol:
MRVL (NASDAQ)

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

Worldwide Employment:
Approximately 5,700

Net Revenues:
$2.8 billion (fiscal 2010, ended January 30, 2010)

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