



# 2013 Marvell Product Selector Guide

## TOTAL SOLUTIONS FROM MARVELL

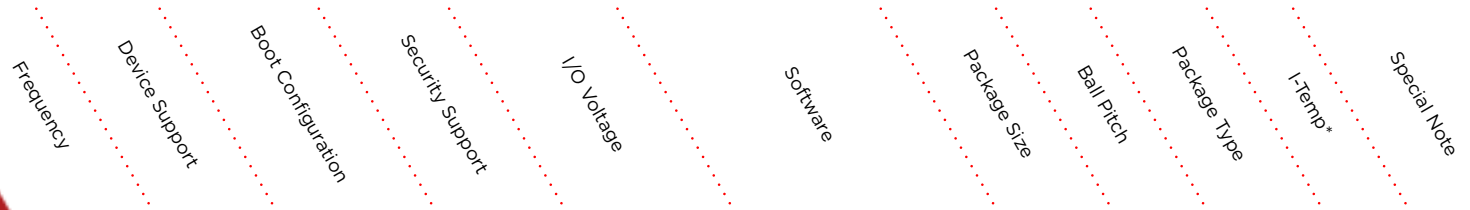
Providing a broad spectrum of solutions across a wide range of market segments.

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ARMADA™ Series

Application Processors

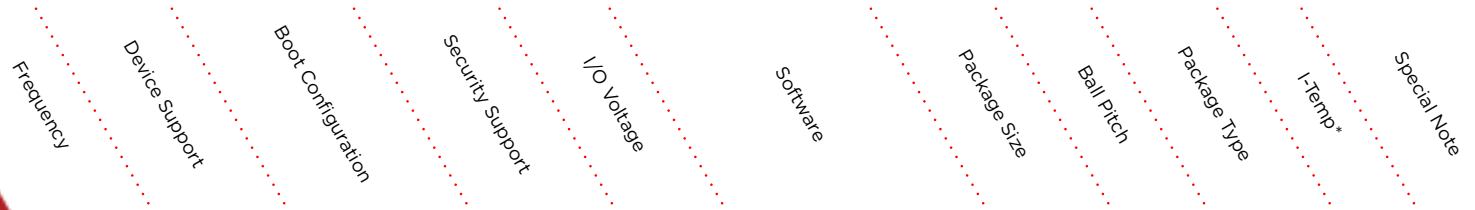


ARMADA 100 Family											
Part Number	Frequency	Device Support	Boot Configuration	Security Support	I/O Voltage	Software	Package Size	Ball Pitch	Package Type	I-Temp*	Special Note
88AP162-B0-BJD2C004	400MHz	6 chip selects	Auto-boot configuration	No	1.8v, 3.3v	Linux, Adobe® FlashLite, Android, Windows® 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



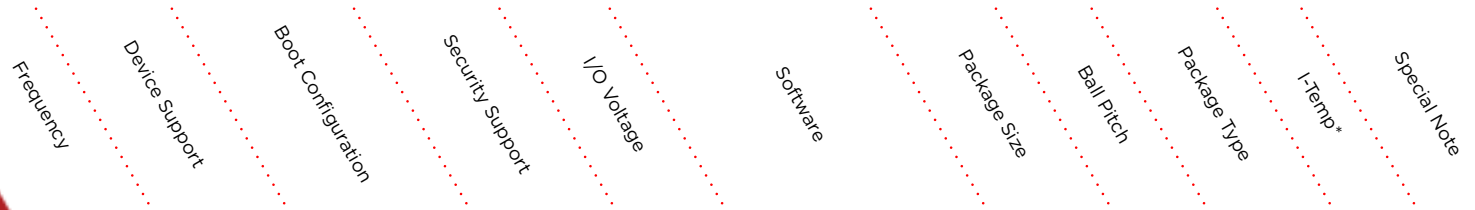
PXA300 Family											
88AP300-A1-BGK2C624-T161	624MHz	8 chip selects	x16 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP300-A1-BGK2C624-T162	624MHz	8 chip selects	x8 NAND	No	1.8v - 3.3v	Linux, Windows® CE, Windows® Mobile	13mm x 13mm	0.5mm	Discrete	*	
88AP300-A1-BGK2C624-T163	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



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

ARMADA 300 Family

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
88F6282 High-performance CPU	ARM®v5T E 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	ARM®v5T E 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	ARM®v5T E 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	ARM®v5T E 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	ARM®v5T E 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  
Priority, 4 Queues per Port  
QoS, IEEE 802.1p  
VLANs Supported  
IEEE 802.1Q Dynamic  
Tree Support  
IEEE 802.1D Spanning  
Tree Support  
I-Temp

	CPU	Memory	Port Configuration	Evaluation Board	Cache	GPIO	MAC Size	Power	Package Size	Package Type	Priority, 4 Queues per Port	QoS, IEEE 802.1p	VLANs Supported	IEEE 802.1Q Dynamic Tree Support	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/DDR3	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 88E7221	400MHz ARM®9 CPU	16-bit DDR2/DDR3	2 FE PHYs, 1 MII, 1 UART, 1 JTAG, USB, SDIO, I2S/TDM Audio	RD1-88E7221-1	I&D 16K/16K 4-way	16	1K	0.7W	14mm x 20mm	128-QFP	Yes	64	Yes			

LED Drivers

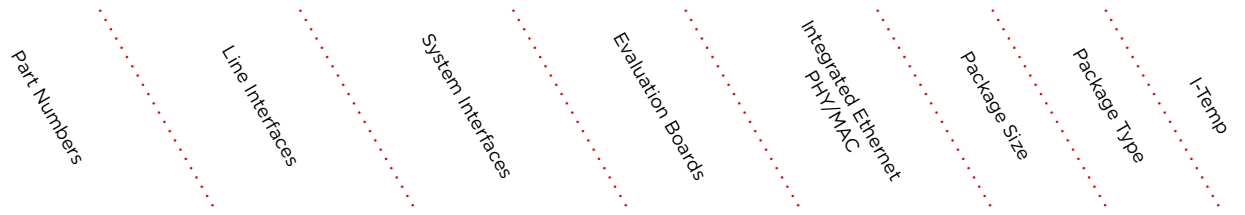
LED Lighting

Part Numbers  
Topology  
Power Factor Correction  
Total Harmonic Distortion  
Input Voltage Range  
Output Power  
Switching Frequency  
Dimming  
Other Features  
Package Type

88EM8082	88EM8082A1-SAG2C000	AC/DC Single-stage flyback LED Driver	0.99	<10%	Universal Input	0 to 150W (w/ external FET)	120kHz	PWM compatible	OCP, OVP, OTP	8-pin SOIC
88EM8042	88EM8042A1-SAG2C000	AC/DC Single-stage flyback Contant Voltage offline Controller	0.99	<20%	Universal Input	0 to 150W (w/ external FET)	120kHz	PWM compatible	OCP, OVP, OTP	8-pin SOIC
88EM8801	88EM8801B0-SAG2C000	2- channel DC/DC Buck PWM Dimming LED Driver	NA	NA	10-40VDC	0-20W	200 to 800kHz	0-10V, I2C, PWM	Two LED channel color mixing, OVP, OCP, OTP	28-pin 4x4 QFN
88EM8183	88EM8183A0-SAE2C000	Triac Dimmable Primary Side Regulated AC/DC flyback LED Driver	0.95	<20%	Low Line: (100-120) +/-15%, High Line: (220-240) +/-15%	0-100W	90KHz to 220kHz	TRIAC	Valley switching, OTP, OVP, Short circuit protection and open LED string protection	8-pin SOIC-EP
88EM8182	88EM8182A0-SAE2C000-AL00	Non-Dimmable Primary Side Regulated AC/DC Flyback LED Driver	0.95	<20%	Universal Input	0-100W	90KHz to 220kHz	Non-dimmable	Valley switching, OTP, OVP, Short circuit protection and open LED string protection	8-pin SOIC-EP

XELERATED® NPU

Network Processors



X11 NPU Series								
Xelerated X11-D240	98NP0240C2-BPT-C000	24 SGMII, 4 XAUI	2 SPI-4.2	XEL-13011-2, XEL-13012-2	24 GE, 4 10GE	40mm x 40mm	HFCBGA	No
Xelerated X11-D240 Lead Free	98NP0240C2-BPT2C000	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	98HX0320B2-BPR-C000	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	98HX0330B2-BPR-C000	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	98HX0326B2-BPR-C000	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	98HX0336B2-BPR-C000	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	98AX0210B2-BPS2C000	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	98AX0240B2-BPS2C000	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	98AX0310B2-BPS2C000	48 SGMII, QSGMII, 12 XAUI, 2 Interlaken	Interlaken XAUI	XEL-13020	48 GE (16 2.5GE), 12 10GE	40mm x 40mm	HFCBGA	Option

XELERATED® NPU

Network Processors

Part Numbers  
 Line Interfaces  
 System Interfaces  
 Evaluation Boards  
 Integrated Ethernet PHY/MAC  
 Package Size  
 Package Type  
 I-Temp

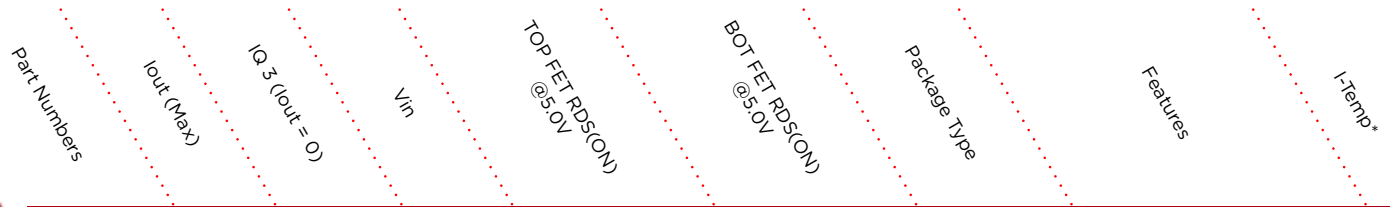
	Part Numbers	Line Interfaces	System Interfaces	Evaluation Boards	Integrated Ethernet PHY/MAC	Package Size	Package Type	I-Temp
Xelerated AX340 Programmable Ethernet Switch with integrated Traffic Manager	98AX0340B2-BPS2C000	48 SGMII, QSGMII, 12 XAU1, 2 Interlaken	Interlaken XAU1	XEL-13020	48 GE (16 2.5GE), 12 10GE	40mm x 40mm	HFCBGA	Option
Xelerated AX210 Industrial Grade	98AX0210B2-BPS2I000	32 SGMII, QSGMII, 10 XAU1, 2 Interlaken	Interlaken XAU1	XEL-13020	32 GE (16 2.5GE), 12 10GE	40mm x 40mm	HFCBGA	Yes
Xelerated AX240 Industrial Grade	98AX0240B2-BPS2I000	32 SGMII, QSGMII, 10 XAU1, 2 Interlaken	Interlaken XAU1	XEL-13020	32 GE (16 2.5GE), 12 10GE	40mm x 40mm	HFCBGA	Yes
Xelerated AX310 Industrial Grade	98AX0310B2-BPS2I000	48 SGMII, QSGMII, 12 XAU1, 2 Interlaken	Interlaken XAU1	XEL-13020	48 GE (16 2.5GE), 12 10GE	40mm x 40mm	HFCBGA	Yes
Xelerated AX340 Industrial Grade	98AX0340B2-BPS2I000	48 SGMII, QSGMII, 12 XAU1, 2 Interlaken	Interlaken XAU1	XEL-13020	48 GE (16 2.5GE), 12 10GE	40mm x 40mm	HFCBGA	Yes

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

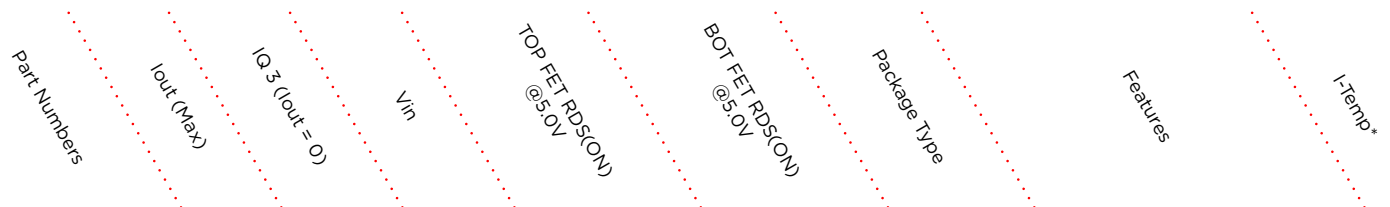


Power Management

Synchronous Buck Regulator									
Part Number	I <sub>out</sub> (Max)	I <sub>Q3</sub> (I <sub>out</sub> = 0)	V <sub>in</sub>	TOP FET R <sub>DS(ON)</sub> @5.0V	BOT FET R <sub>DS(ON)</sub> @5.0V	Package Type	Features	I-Temp*	
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	2MHz, Enable, PGood, OVP, SS	Yes
MVPG31	MVPG31-NAE1	2.0A	1.0mA	3.0V to 5.5V	120m	70m	3mm x 4mm DFN-12	1MHz, Shutdown	Yes
88PG878	88PG878-NFB1	5.0A	1.2mA	3.0V to 5.5V	9.5m	7.5m	3mm x 4mm QFN-18	1MHz, Enable, POR, OVP, +/-3% DC Accuracy	Yes
88PH8101	88PH8101-UBB1	Up to 20A	2.5mA	4.5V to 16V	External FET	External FET	TSSOP-16	500kHz, Enable, PGood, OVP, SS	Yes
88PH845	88PH845-NFB1	3.0A	2.7mA	4.5V to 16V	70m	35m	3mm x 4mm QFN-18	500kHz, Enable, PGood, OVP, SS	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

Synchronous Buck Regulator LDO									
Part Number	I <sub>out</sub> (Max)	I <sub>Q3</sub> (I <sub>out</sub> = 0)	V <sub>in</sub>	TOP FET R <sub>DS(ON)</sub> @5.0V	BOT FET R <sub>DS(ON)</sub> @5.0V	Package Type	Features	I-Temp*	
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

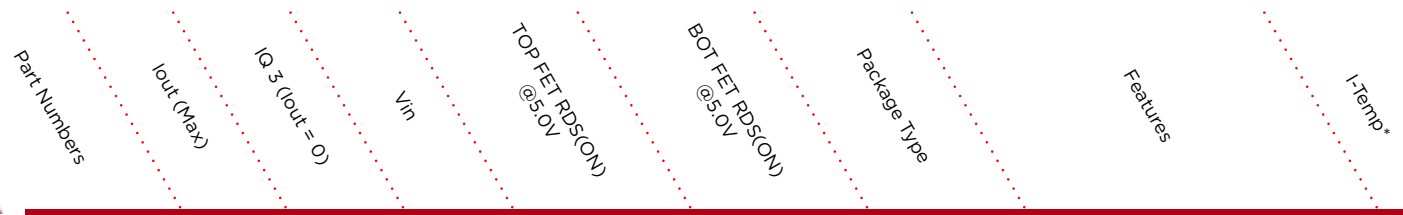
Power Management	Part Numbers	I <sub>out</sub> (Max)	I <sub>Q 3</sub> (I <sub>out</sub> = 0)	V <sub>in</sub>	TOP FET R <sub>DS(ON)</sub> @5.0V	BOT FET R <sub>DS(ON)</sub> @5.0V	Package Type	Features	I-Temp*
MVPG30x	MVPG30x-NAE1	2.0A	1.7mA	3.0V to 5.5V	120m	70m	3mm x 4mm DFN-12	LDO x Opt: B=3.3V, E = 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	WLCSF	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



Dual Synchronous Buck Regulator									
Part Numbers	I <sub>out</sub> (Max)	I <sub>Q3</sub> (I <sub>out</sub> = 0)	V <sub>in</sub>	TOP FET R <sub>DS(ON)</sub> @5.0V	BOT FET R <sub>DS(ON)</sub> @5.0V	Package Type	Features	I-Temp*	
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
88PG865	88PG865-CBK2	3.0A/1.0A	75uA	2.7V to 4.8V	30m/68m @3.6V	22m/60m @3.6V	WLCSP-18, 0.4mm pitch	3.2MHz, +/-2% DC Accuracy, I2C Interface, Enable, Soft Start, POR, OVP	Yes
88PG867x	88PG867x-NNY2	3.0A/1.0A	75uA	2.7V to 5.5V	60m/125m	42m/110m	3mm x 4mm QFN-24	2.2MHz, +/-3% DC Accuracy, I2C Interface, Enable, Soft Start, POR, OVP	Yes
88PG868	88PG868-NNY2	3.0A/1.0A	75uA	2.7V to 5.5V	60m/125m	42m/110m	3mm x 4mm QFN-24	1.1MHz, +/-3% DC Accuracy, I2C Interface, 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	Yes
88PG8211 (2 Buck LDO)	88PG8211-NXS2	500mA	25uA	2.7V to 5.5V	320m @3.6V	150m @3.6V	3mm x 3mm QFN-20	50mA LDO, 2.7 MHz	Yes
88PG821A (2 Buck LDO)	88PG821A-NXS2	500mA	25uA	2.7V to 5.5V	320m @3.6V	150m @3.6V	3mm x 3mm QFN-20	50mA LDO, 2.7 MHz	Yes

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

BackLight

Power Management

Backlight Driver IC

88PM8606

Part Numbers	Vin	Boost Volt (max)	WLED BL Iout (max)	Number of WLED Strings	Package Type	Other Features	I-Temp
88PM8606-NNY2	3V to 4V	24.3V	60mA	3	3mm x 4mm QFN-24	RGB LEDs, Linear Regulator, PWM Vibrator	Yes

Audio Codec and Amplifiers

Power Management

Audio Codec

88CE156

88PM805

Part Numbers	Sampling Rate	Number of MIC Inputs	Line-In	Stereo Headphone Amps	Earpiece Amp	Loudspeaker Amp	ADC/DAC	Digital Audio Interface	Package Type	Other Features	I-Temp
88CE156-NAJ2	8kHz - 96kHz	2 Analog MICs	Stereo	Class-AB, 20mW @ 16	N/A	Class-AB, Stereo 1W @ 8	24-bit Sigma Delta	Single I2S/PDM	5mm x 5mm-32 QFN	5-Band Equalizer, Click and Pop Suppression	Yes
88PM805-BPH2	8kHz - 48kHz	2 Analog or 4 Digital MICs	Stereo	Class-G, 53mW @ 16	Class-AB 40mW @ 32	Class-D, Mono 1W @ 8	24-bit Sigma Delta	Dual I2S/PDM	6.5mm x 6.5mm BGA-66, 0.65mm pitch	PDM interface for external Loudspeaker, 5-Band Equalizer, Click and Pop Suppression, Ultra Low Power (6.5mW) Audio Playback	No

Highly Integrated PMIC

Power Management

Part Numbers Vin Number of Bucks Number of LDOs Max Iout (Buck/LDO) Audio Codec Package Type Additional Features I-Temp

PMIC (Mobile and Tablets)									
Part Numbers	Vin	Number of Bucks	Number of LDOs	Max Iout (Buck/LDO)	Audio Codec	Package Type	Additional Features	I-Temp	
88PM8607	88PM8607-BIX2, 88PG8607-BKG2	2.7V to 4.8V	3	15	1.5A / 300mA	HiFi Stereo Audio Codec with Headphone Amps, Earpiece Amp, 1W Loudspeaker Amp	7mm x 7mm BGA-169 (0.4mm pitch), 10mm x 10mm BGA-160 (0.65mm pitch)	Li-Ion Battery Charger, PWM Vibrator, On Key, GPADCs, Watchdog Timer	No
88PM8609	88PM8609-CBK2	2.7V to 4.8V	3	10	1.5A / 200mA	N/A	WLCSP-56, 0.4mm pitch	RTC, GPADCs, Watchdog Timer	No
88PM812	88PM812-BNK2, 88PM812-BRF2	2.7V to 4.8V	5	19	3A / 300mA	HiFi Stereo Audio Codec with Headphone Amps, Earpiece Amp, 1W Loudspeaker Amp	6mm x 7mm BGA-171 (0.4mm pitch), 7mm x 8.5mm BGA-171 (0.5mm pitch)	RTC, GPADCs, Watchdog Timer, PWM Vibrator, Fuel Gauge (Software)	No
88PM800	88PM800-BPI2	2.7V to 4.8V	5	19	3A / 300mA	N/A	8.5mm x 8.0mm BGA-112 (0.65mm pitch)	RTC, GPADCs, Watchdog Timer, PWM Vibrator, Fuel Gauge (Software)	No
88PM801	88PM801-CBK2	2.7V to 4.8V	5	6	2A / 300mA	N/A	WLCSP-57, 0.4mm pitch	DVCs, Analog Tracking Buck Control, RTC, GPADCs	No

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
88SE9345	88SE9345	4S	PCI-Express 2.0x4	Tag and Native Command	Yes	Flash BIOS I/F	N/A	-5W	19mm x 19mm	481-TFBGA	No	0.8mm	EV1-88SE9345
88SE9230	88SE9230	4S	PCI-Express 2.0x2	Tag and Native Command	FIS-Based	Flash BIOS I/F	HW RAID 0/1	1w	9mmx9mm	76-QFN	No	0.4mm	EV1-88SE9230
88SE9235	88SE9235	4S	PCI-Express 2.0x2	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	1w	9mm x 9mm	76-QFN	No	0.4mm	EV1-88SE9235
88SE9215	88SE9215	4S	PCI-Express 2.0x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	1w	100 Gbps, 150 Mpps	76-QFN	No	0.4mm	EV1-88SE9215
88SE9170	88SE9170	2S	PCI Express 2.0 x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	0.8w	7mmx7mm	56-QFN	Yes	0.4mm	EV1-88SE9170
88SE9172	88SE9172	2S	PCI Express 2.0 x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	0.8w	7mmx7mm	56-QFN	Yes	0.4mm	EV1-88SE9172
88SE9182	88SE9182	2S	PCI-Express 2.0x2	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	0.8w	7mmx7mm	56-QFN	Yes	0.4mm	EV1-88SE9182
88SE9186	88SE9186	2S	PCI-Express 2.0x2	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	0.8w	7mmx7mm	56-QFN	Yes	0.4mm	EV1-88SE9186

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
88RC9580	88RC9580	8	PCI-Express 2.0 x8	Tag and Native Command	Yes	Flash BIOS I/F	Yes	N/A	-8W	27mmx27mm	676-FCBGA		1.0mm	DB1-88RC9580
88SE9548	88RC9548	4	PCI-Express 2.0 x8	Tag and Native Command	Yes	Flash BIOS I/F	Yes	N/A	-7W	27mm x 27mm	676-FCBGA		1.0mm	DB1-88RC9548
88SE9485 PCIe 2.0 x8 to 8 SAS/SATA 6Gb/s Ports RAID Controller	88SE9485	8	PCI-Express 2.0 x8	Tag and Native Command	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 Command	Yes	Flash BIOS I/F	Yes	N/A	-5W	19mm x 19mm	481-TFBGA		0.8mm	EVI-88SE9445

SATA Port Multiplier/Multiplexer

Storage Switching

	Part Numbers	Port Count	Data Rate	Power	Package Size	Package Type	I-Temp	Evaluation Board Part Number
88SM9715	88SM9715	6	SATA 6Gb/s	0.88W	10mm x 10mm	84-QFP		EVI-88SM9715
88SM9705	88SM9705	6	SATA 6Gb/s	0.88W	10mm x 10mm	84-QFP		EVI-88SM9705
88SM9713	88SM9713	4	SATA 6Gb/s	0.58W	8mm x 8mm	64-QFP		EVI-88SM9713
88SM9703	88SM9703	4	SATA 6Gb/s	0.58W	8mm x 8mm	64-QFP		EVI-88SM9703

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

<p><b>88SF9110</b> 6Gb/s SAS to SATA Protocol Converter</p>	<b>88SF9110</b>	<b>2</b>	<b>1</b>	<b>SAS/SATA 6.0 Gb/s</b>	<b>N/A</b>	<b>1.10W</b>	<b>10mm x 10mm</b>	<b>84-QFN</b>		<b>DB1-88SF9110</b>
<p><b>88SF9118</b> 6Gb/s SAS to SATA Protocol Converter</p>	<b>88SF9118</b>	<b>2</b>	<b>1</b>	<b>SAS/SATA 6.0 Gb/s</b>	<b>N/A</b>	<b>1.25W</b>	<b>8mm x 11mm</b>	<b>117-TFBGA</b>		<b>DB1-88SF9118</b>

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	Priority 4 Queues per Port	QoS IEEE 802.1p	SNMP, RMON Network Management Support	Energy Efficient Ethernet (EEE)
88E6020 4-Port Fast Ethernet Switch	4	2 PHYs 2 MII/RMII	0.3W		DB1-88E6071-1		1K	64	9mm x 9mm	64-QFN	Yes: 1 PHY Port	Yes	Yes	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	9mm x 9mm	64-QFN	Yes: 1 PHY Port	Yes			Yes
88E6071 7-Port Fast Ethernet Switch	7	5 PHYs 2 RMII (or 1 MII/ RGMII)	0.5W		DB1-88E6071-1		1K	64	9mm x 9mm	64-QFN	Yes: 1 PHY Port	Yes	Yes	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	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	Energy Efficient Ethernet (EEE)
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	9mm x 9mm	64-QFN	Yes: 1 PHY Port	Yes	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	9mm x 9mm	64-QFN	Yes: 1 PHY Port	Yes	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	Energy Efficient Ethernet (EEE)
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	Energy Efficient Ethernet (EEE)
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: SGMII port	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	100BASE-FX Support	QoS IEEE 802.1p Priority, 4 Queues per Port	SNMP, RMON Network Management Support	Energy Efficient Ethernet (EEE)
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: SGMII ports	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  
 100BASE-FX Support  
 QoS, IEEE 802.1p Priority, 4 Queues per port  
 SNMP, RMON Network Management Support  
 Energy Efficient Ethernet (EEE)

Part Number	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	Energy Efficient Ethernet (EEE)
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: SGMII ports	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: SGMII ports	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: SGMII ports	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	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	100BASE-FX Support	QoS, IEEE 802.1p Priority, 4 Queues per port	SNMP, RMON Network Management Support	Energy Efficient Ethernet (EEE)
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	Yes	DB1-88E6176-1		8K	4096	14mm x 14mm	128-QFP	Yes: SGMII port	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	
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	DB1-88E6351-1	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	Yes	DB1-88E6352-1	Yes	8K	4096	14mm x 14mm	128-QFP	Yes: SGMII port	Yes	Yes	Yes
88E6123	3	2 GE PHYs 1 GMII/RGMII/MII/SGMII	1.2W		DB-88E6123-1		1K	64	14mm x 20mm	128-QFP	Yes: SGMII port	Yes	Yes	

PRESTERA® DX

Switching

Part Numbers  
 Port Configuration  
 Type  
 Evaluation Boards  
 Number of Ports  
 Package Size  
 Package Type  
 I-Temp

DX Series

<b>Prestera-DX107</b> 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
<b>Prestera-DX160</b> 16-Port Gigabit Ethernet Packet Processor	98DX160-xx	16 SGMII	Layer 2	RD-DX240-24G	16	31mm x 31mm	458-HSBGA	
<b>Prestera-DX167</b> 16-Port Gigabit Ethernet Packet Processor	98DX167-xx	16 SGMII	Layer 2/3	RD-DX247-24G	16	31mm x 31mm	458-HSBGA	Yes
<b>Prestera-DX240</b> 24-Port Gigabit Ethernet Packet Processor	98DX240-xx	24 SGMII	Layer 2	RD-DX240-24G	24	31mm x 31mm	458-HSBGA	
<b>Prestera-DX249</b> 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	
<b>Prestera-DX253</b> 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
<b>Prestera-DX269</b> 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	
<b>Prestera-DX273</b> 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	
<b>Prestera-DX5128</b> 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

<p>Presteria-DX8110 10-Port 10Gigabit Ethernet Packet Processor</p>	98DX8110-xx	10 XAUI	Layer 3	DB-DX3-6XG-4HGS, RD-DX3-48GE-4HGS	10	35mm x 35mm	1138-FCBGA	
<p>Presteria-DXx24 24-Port Gigabit Ethernet Packet Processor</p>	98DX324-A0-LKJ2C000, 98DX224-A0-LKJ2C000	6 QSGMII	Layer 2	RD-DX-24G-A RD-DX-22GE2C-A	24	14mm x 20mm	LQFP	No
<p>Presteria-DXx16 16-Port Gigabit Ethernet Packet Processor</p>	98DX316-A0-LKJ2C000, 98DX216-A0-LKJ2C000	4 QSGMII	Layer 2	RD-DX-16UNM	16	14mm x 20mm	LQFP	No
<p>Presteria-DXx08 8-Port Gigabit Ethernet Packet Processor</p>	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								
<p>Presteria-CX8248</p>	98CX8248	48 RXAUI	L3	RD-CX-48XG	48	40mm x 40mm	HFCBGA	
<p>Presteria-CX8234</p>	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

**Presteria-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
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**Presteria-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
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**Presteria-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
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Secure MAC/PHY

**Presteria 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
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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 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 (1.4), 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	Voltage	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-64560A0-2XMPC7448, DB-64560A0-IBM750CXr, DB-64560A0-MPC7447A, DB-64560A0-MPC7448	U-Boot (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-64460B1-2XMPC7447 A-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		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	
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		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	
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
- GMI
- 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

Device	Ports	10/100/1000BASE-T	100BASE-FX	1000BASE-X	SGMII (Line)	SFP	MII	GMI	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 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		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 GMI	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  
100BASE-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

Alaska 88E1510  
EEE 10/100/1000BASE-T PHY with RGMII

Alaska 88E1512  
EEE 10/100/1000BASE-T PHY with RGMII, SGMII, Copper/Fiber Autoselect Detect

Alaska 88E1518  
EEE 10/100/1000BASE-T PHY with RGMII

1	Yes							Yes							LDO	Yes	Yes	Yes		Yes			G	Yes	48-QFN
1	Yes							Yes							Switching Regulator	Yes	Yes	Yes		Yes	Yes	Yes	G	Yes	48-QFN
1	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes						Switching Regulator	Yes	Yes	Yes		Yes	Yes	Yes	G	Yes	56-QFN
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

Alaska 88E1322  
10/100/1000BASE-T PHY with SGMII, SyncE, IEEE 1588 Time Stamping, Copper/Fiber Autoselect Detect

2	Yes							Yes								Yes	Yes	Yes	Yes				R	Yes	100-TQFP
2	Yes	Yes	Yes	Yes	Yes				Yes							Yes	Yes	Yes	Yes	Yes	Yes		G	Yes	196 TFBGA

Quad-Port Devices

Alaska 88E1143  
100/1000Mbps Fiber Transceiver

Alaska 88E1145  
10/100/1000BASE-T PHY with SGMII /SERDES

Alaska 88E1240  
10/100/1000BASE-T PHY with SGMII

4		Yes	Yes	Yes				Yes	Yes								Yes	Yes	Yes		Yes		R	Yes	364-PBGA
4	Yes	Yes	Yes	Yes				Yes	Yes	Yes	Yes	Yes					Yes	Yes	Yes		Yes		R	Yes	364-HSBGA
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, 100BASE-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 Autotmedia Detect, SyncE, IEEE 1588 Time-  
stamping

4	Yes	Yes	Yes	Yes	Yes					Yes			Yes	Yes	Yes	Yes			G	Yes	196-TFBGA
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Alaska 88E1340S  
10/100/1000BASE-T PHY with SGMII, QSGMII, Copper/  
Fiber Autotmedia Detect, SyncE, IEEE 1588 Time-  
stamping

4	Yes	Yes	Yes	Yes	Yes					Yes			Yes	Yes	Yes	Yes		Yes	G	Yes	196-TFBGA
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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
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Alaska 88E1545  
EEE 10/100/1000BASE-T PHY with QSGMII

4	Yes				Yes								Yes	Yes	Yes	Yes			Yes	G	Yes	128-LQFP
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\*RoHS 6/6 + Halogen-Free

ALASKA® X Series

Transceivers

Number of Ports, 10GBASE-SR/ER/LR, 10GBASE-SW/EW/LN, 10GBASE-LRM, 100Mb/1Gb/10GBASE-T, XAU1, XGMII, RXAU1, 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
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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
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\*RoHS 6/6 + Halogen-Free

ALASKA® X Series

Transceivers

Number of Ports  
 10GBASE-SR/ER/LR  
 10GBASE-SW/EW/LN  
 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	156.25/159.375 MHz		Yes	Yes	256-TFBGA
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Alaska X 88X2013  
 XAUI to XFI Serial 10G SERDES (WAN & LAN PHY)

1	Yes	Yes				Yes									Yes	Yes	156.25/159.375 MHz, 155.52 MHz (WIS)		Yes	Yes	256-TFBGA
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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
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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
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\*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 #
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QDEO™ Video Processors												
<b>88DE2710</b> 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
<b>88DE2750</b> 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)
<b>88DE2755</b> 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	88DE2755B0-BIF2C000, 88DE2755B1-BIF2C000, 88DE2755B1-BIF2C000-T182, 88DE2755B1-BIF2C000-T183, 88DE2755B1-BIF2C000-T188

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													
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	
88DE8020 Single Chip Hybrid Demodulator for DVB-T/C/NTSC/PAL/SECAM	1	1	Not Applicable	None	None	Not Required	Not Required	7mm x 7mm	48-QFN			88DE8020XX-NNB2C000	
88DE8010 Single Chip Hybrid Demodulator for DVB-T/C/NTSC/PAL/SECAM	1	1	Not Applicable	None	None	Not Required	Not Required	7mm x 7mm	48-QFN			88DE8010-XX-NNB2C000	
88DE8500 Single Chip Hybrid Tuner for Worldwide markets	1	1	Not Applicable	None	None	Not Required	Not Required	5mm x 5mm	32-QFN			88DE8500-A7-NAJ2C000	



Wireless

Wireless

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

AVASTAR™ Series

Wireless

Part Number	Wireless Technologies	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	802.11 a/b/g/n	PCIe 1.1	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	802.11 a/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	802.11 a/b/g/n 1x1 + BT 3.0 + HS + FM 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	BT 3.0 + HS + FM Rx	SDIO 2.0, GSPI, UART	TFBGA, CSP	4mm x 4mm	400um	Yes	-30 to +85C	RD-88W-8790-A0	55nm

AVASTAR™ Series

Wireless

Part Number	Wireless Technologies	Interface Support	Package Type	Package Size	Ball Pitch	Embedded CPU	Temp	Evaluation Boards	Process
88W8766 Single-Chip 1x1 802.11 a/b/g/n + BT 4.0 Dual-mode	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	802.11 a/b/g/n 2x2 + BT 4.0 Dual-mode + FM 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
AVASTAR 8800 Family									
88W8897	802.11 a/b/g/n/ac 2x2 + BT 4.0 Dual-mode + NFC	PCIe, SDIO 3.0, USB 2.0, HSIC, UART	QFN, CSP	9.5mm x 11mm	400um	Yes	-30 to +85C		40nm
88W8864	802.11 a/b/g/n/ac 4x4	PCIe, SDIO 3.0, USB 2.0, HSIC, UART	AQFN	11.8mm x 11mm	400um	Yes	0 to +70C		40nm

## 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.

**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 today's 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](http://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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