

# 2017 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	CPU Base Archi	Etherne	δ0,		UPR)	SAYA	Denice by	Fredue	Cach	DOR C	Package	Packay	Ball Pitc	Lamo	Evaluation Boatd	, ,
Embedded Processors		Recture						ν · · · · · · · · · · · · · · · · · · ·			0/16/	F6	ype	? ·. ·. . · · ·	You have a second	° :
ARMADA 7K/8K																
ARMADA 7020	88F7020	ARM*v 8 Cortex A72 Dual Core	2x 1/2.5GBE 1x 10GbE	1x PCle3.0 x4/x2/x1 2x PCle3.0 x1	2x USB3/ USB2	4x UART	2 x SATA 3	8/16 bit Device bus	800MHz , 1.0GHz, 1.2GHz, 1.6GHz	L1: 32KB/32K B L2: 1MB unified	32-bit ECC	17mm x 17mm	429L-FCBGA	0.65mm	DB-88F7040A-BP-DDR	U-Boot Linux, OpenWi T, Yocto
ARMADA 7040	88F7040		2x 1/2.5GBE 1x 10GbE	1x PCIe3.0 x4/x2/x1 2x PCIe3.0 x1	2x USB3/ USB2	4x UART	2 x SATA 3	8/16 bit Device bus	800MHz , 1.0GHz, 1.2GHz	L1: 32KB/32K B L2: 1MB unified		17mm x 17mm	429L-FCBGA	0.65mm	DB-88F7040A-BP-DDR	U-Boot Linux, OpenWi T, Yocto
ARMADA 8020	88F8020	ARM*v 8 Cortex A72 Dual Core	1/2.5GBE	1x PCle3.0 x4/x2/x1 1x PCle3.0 x1/ x2 4x PCle3 X1	3x USB3/ USB2	4x UART	4 x SATA 3	8/16 bit Device bus	1.0GHz, 1.2GHz, 1.6GHz, 2.0GHz	L1: 32KB/32K B L2: 1MB unified		24mm x 24mm	816 - FCBGA	0.8mm	DB-88F8040A-BP-DDR	U-Boot Linux, OpenW T, Yocto
ARMADA 8040	88F8040		1/2.5GBE	1x PCle3.0 x4/x2/x1 1x PCle3.0 x1/ x2 4x PCle3 X1	3x USB3/ USB2	4x UART	4 x SATA 3	8/16 bit Device bus	1.0GHz, 1.2GHz, 1.6GHz, 2.0GHz	L1: 32KB/32K B L2: 1MB unified		24mm x 24mm	816 - FCBGA	0.8mm	DB-88F8040A-BP-DDR	U-Boot Linux, OpenWi T, Yocto
ARMADA XP																
MV78230	MV78230	ARM*v 7 Dual Core	3 x GbE	2 x PCle 2.0 2 x PCle 2.0 (1 x4 or 4 x1 and 1 x1)	3 x USB2	4 x UART	2 x SATA 2	8/16 bit Device bus	1.06GHz, 1.2GHz, 1.33GHz, 1.6GHz	L1: 32KB-I, 32KB-D; L2: 1MB unified	32bit ECC DDR3/L-1600 with ECC	23mm x 23mm	732-FCBGA	0.65mm	DB-MV784MP-GP	u-boot, Linux, vxWork s and others
MV78260	MV78260	ARM*v 7 Dual Core	4 x GbE	3 x PCIe 2.0 (2 x4 or 4 x1, 1 x4 /x1)	3 x USB2	4 x UART	2 x SATA 2	8/16/3 2 bit Device bus	1.06GHz, 1.2GHz, 1.33GHz, 1.6GHz		32/64bit ECC DDR3/L-1600 with ECC		732-FCBGA	0.65mm	DB-MV784MP-GP	u-boot, Linux, vxWork s and others
MV78460	MV78460	ARM*v 7 Quad Core	4 x GbE	4 x PCle 2.0 (2 x4 or 4 x1 and 2x4/ x1)	3 x USB2	4 x UART	2 x SATA 2	8/16/3 2 bit Device bus	1.2GHz, 1.33GHz, 1.6GHz		32/64bit ECC DDR3/L-1600 with ECC		732-FCBGA	0.65mm	DB-MV784MP-GP	u-boot, Linux, vxWork s and others
ARMADA 38x																

ARMADA Series  Embedded Processors	Part Numbers	Etherne	× × × ×		L PA	SMP	Device Bu	Fredue	Cac	OORC	packade	Package	Ball Pitc	Jemo		Evaluation Board	, J
ARMADA 380	88F6810	ARM*v 7 Cortex	2 x 1/2.5G bE	3 x PCle 2.0 x1	2 x USB3/ USB2 and 1 x USB2	2x UART	2 x SATA 3	8/16 bit Device bus	1.0GHz, 1.33GHz, 1.6GHz	L1: 32KB/32K B L2: 512MB unified		17x17mm	372-TFBGA	0.8mm	Yes	DB-88F6820-GP-A0; DB-88F6820-AP-A0	U-Boot, Linux, OpenWR T, Yocto, FreeBSD
ARMADA 381	88F6811	ARM*v 7 Cortex A9 Single Core with NEON	1 x 1/2.5G bE	3 x PCle 2.0 x1	1 x USB3/ USB2 and 1 x USB2	2x UART	2 x SATA 3	8/16 bit Device bus		L1: 32KB/32K B L2: 1MB unified	16-bit, ECC DDR3/ L-1333	14x14mn	1 298-TFBGA	0.65mm	No	DB-88F6821-BP-A0	U-Boot, Linux, OpenWR T, Yocto, FreeBSD
ARMADA 382	88F682	ARM*v7 Cortex A9 Dual Core with NEON	1 x 1/2.5G bE	3 x PCle 2.0 x1	1 x USB3/ USB2 and 1 x USB2	2x UART	2 x SATA 3	8/16 bit Device bus	1.0GHz, 1.33GHz	L1: 32KB/32K B L2: 1MB unified	16-bit, ECC DDR3/ L-1333	14x14mn	ı 298-TFBGA	0.65mm	No	DB-88F6821-BP-A0	U-Boot, Linux, OpenWR T, Yocto, FreeBSD
ARMADA 385	88F6820	ARM*v7 Cortex A9 Dual Core with NEON	3 x 1/2.5G bE		2 x USB3/ USB2 and 1 x USB2	2x UART	2 x SATA 3	8/16 bit Device bus	1.0GHz, 1.33GHz, 1.6GHz, 1.8GHz, 2.0GHz		16/32-bit, ECC DDR3/ L-1600 and DDR4-1800	17x17mm	372-TFBGA	0.8mm	Yes	DB-88F6820-GP-A0; DB-88F6820-AP-A0	U-Boot, Linux, OpenWR T, Yocto, FreeBSD
ARMADA 388	88F6828	ARM*v7 Cortex A9 Dual Core with NEON	3 x 1/2.5G bE		2 x USB3/ USB2 and 1 x USB2	2x UART	4 x SATA 3	8/16 bit Device bus	1.0GHz, 1.33GHz, 1.6GHz, 1.8GHz, 2.0GHz	L1: 32KB/32K B L2: 1MB unified	16/32-bit, ECC DDR3/ L-1600 and DDR4-1800	17×17mm	372-TFBGA	0.8mm	Yes	DB-88F6820-GP-A0	U-Boot, Linux, OpenWR T, Yocto, FreeBSD
ARMADA 375																	
88F6720	88F6720	ARM*v7 Cortex A9 Dual Core with NEON	2 x GbE	2 x PCle 2.0 x1	1 x USB3/ USB2 and 1 x USB2	2x UART	2 x SATA 2	8/16 bit Device bus	800MHz , 1.0GHz	L1: 32KB-I, 32KB-D; L2: 256KB unified	16/32-bit, DDR3/ L-1066	19mm X 19mm	511-TFBGA	0.65mm	Yes	DB-88F6720-A0	u-boot, Linux

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ARMADA Series	Part Numbers	ase Archite	Etherne	&C.		b . Z	S NA	Sedice of	. Kedne	· · · · · · · · · · · · · · · · · · ·		Ont Rade	Jackay 5.72e	<sup>ام</sup> . ا	Lamo		Evaluation Board	0
Embedded Processors	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		octule.		<u> </u>	. 4					. 3	· · · · · · · · · · · · · · · · · · ·	76	yoe			Sard	٠.
ARMADA LP																		
88F3710	88	BF3710	ARM*v 8 Cortex A53 Single Core with NEON	2 x 1/2.5G bE	1 x PCle 2.0 x1	1 x USB3/ USB2 and 1 x USB2	1x UART	1 x SATA 3	None	800MHz , 1.0GHz and 1.2GHz	L1: 32KB-I, 32KB-D; L2: 256KB unified	16 bit DDR3/3L/ 4	10.5m m x11.5m m	271L TFBGA	0.5mm	Yes	DB-88F3720-DDR3-1	u-boot, Linux
88F3720	88	8F3720	ARM*v8 Cortex A53 Dual Core with NEON	2 x 1/2.5G bE	1 x PCle 2.0 x1	1 x USB3/ USB2 and 1 x USB2	1x UART	1 x SATA 3	None	800MHz , 1.0GHz and 1.2GHz	L1: 32KB-I, 32KB-D; L2: 256KB unified	16 bit DDR3/3L/ 4	10.5m m x11.5m m	271L TFBGA	0.5mm	Yes	DB-88F3720-DDR3-1	u-boot, Linux

M A R V E L L°

# LINK STREET® Series

Gateways

CRO	3en	or solve	Confiduration	allution Board	GP/C	7 PC	POWE	Package	package Size	Priority, Poly	LEEF BOY SUM	EEE Alee Sur	Tan.	
	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 88E6218 6-Port FE Gateway Router
Link Street 88E6218R 5-Port FE Gateway Router
Link Street 88E7251 6-Port FE AVB Gateway Router
Link Street 88E7221

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	
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	
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	
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	

### **EZ Connect**

### Microcontrollers

88MW300

Microcontroller with Wi-Fi connectivity

88MW302

Microcontroller with Wi-Fi connectivity

88MB300

Microcontroller with BT/BLE

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ARM Cortex- M4F with MPU	200 MHz	802.11 b/g/n 1x1	ROM: 128KB, SRAM: 512KB, Always-On SRAM: 4KB	Yes	Secure Boot, AES engine, WLAN TKIP/AES	32x channel s	On-chip RTC	2x GPT with LED PWM, Watch Dog	I2C (2x), UART (3x), SSP/SPI (3x), I2S (3x), QSPI (with 32KB Flash- cache)	ADC, DAC, Analog Compar ator	Up to 35	JTAG/SWD	68-pin QFN 8x8 mm
ARM Cortex- M4F with MPU	200 MHz	802.11 b/g/n 1x1	ROM: 128KB, SRAM: 512KB, Always-On SRAM: 4KB	Yes	Secure Boot, AES engine, WLAN TKIP/AES	32x channel s	RTC	4x GPT with LED PWM, Watch Dog	I2C (2x), UART (3x), SSP/SPI (3x), I2S (3x), QSPI (with 32KB Flash- cache), USB OTG	ADC, DAC, Analog Compar ator	Up to 50	JTAG/SWD	88-pin QFN 10x10 mm
ARM Cortex-M3 with MPU	128 MHz	Bluetooth 4.2, BDR/ EDR BLE	ROM: 320KB, SRAM: 512KB	No	Bluetooth AES	6x channel s	RTC	2x GPT, Watch Dog	I2C (2x), UART (2x), SSP/SPI (2x), I2S/ PCM (2x), QSPI 16x16 Keyscan controller, Touch- button module, Trackball controller	ADC, DAC, Analog Compar ator	Up to 32	JTAG/SWD	48-pin QFN, 69- bump eWLP

M A R V E L L° STORAGE

# SATA Storage Controllers

### Storage Switching

88SE9345 PCle 2.0X4 to 4 SATA 6Gb/s Ports Without RAID
88SE9230 PCIe 2.0x2 to 4 SATA 6Gb/s Ports RAID Controller
88SE9235 PCIe 2.0x2 to 4 SATA 6Gb/s Ports Without RAID
88SE9215 PCIe 2.0x1 to 4 SATA 6Gb/s Ports Without RAID
88SE9170 PCle 2.0x1 to 2 SATA 6Gb/s Ports Without RAID
88SE9182 PCle 2.0x2 to 2 SATA 6Gb/s Ports Without RAID
88SE9130 PCle 2.0x1 to 2 SATA 6Gb/s Ports RAID controller
88SE9128 PCIe 2.0x1 to 2 SATA 6Gb/s Ports (1 PATA Port) RAID controller
88SE9120 PCIe 2.0x1 to 2 SATA 6Gb/s Ports (1 PATA Port) Without RAID
88SE9125 PCIe 2.0x1 to 2 SATA 6Gb/s Ports Without RAID

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88SE9345	<b>4</b> S	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	<b>4</b> S	PCI-Express 2.0x2	Tag and Native Command	FIS-Based	Flash BIOS I/F	HW RAID 0/1	1w	9mm x 9mm	76-QFN	No	0.4mm	EV1-88SE9230
88SE9235	<b>4</b> S	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	4\$	PCI-Express 2.0x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	1w	9mm x 9mm	76-QFN	No	0.4mm	EV1-88SE9215
88SE9170	25	PCI Express 2.0 x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	0.8w	7mm x 7mm	56-QFN	Yes	0.4mm	EV1-88SE9170
88SE9182	25	PCI-Express 2.0x2	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	0.8w	7mm x 7mm	56-QFN	Yes	0.4mm	EV1-88SE9182
88SE9130	25	PCI-Express 2.0 x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	HW RAID 0/1	1W	9mm x 9mm	76-QFN	No	0.4mm	EV1-88SE9130
88SE9128	2S 1P	PCI-Express 2.0 x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	HW RAID 0/1	1W	9mm x 9mm	76-QFN	No	0.4mm	EV1-88SE9128
88SE9120	2S 1P	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	EV1-88SE9120
88SE9125	25	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	EV1-88SE9125

M A R V E L L° STORAGE

# **SATA Storage Controllers**

### **Storage Switching**

88SE1475

PCIe 3.0x8 to 16 SATA 6Gb/s Ports Without RAID

88SE9171

PCIe 2.0x1 to 1 SATA 6Gb/s Port

Part	PortCo		7.5.7.0g	ort Mu	Tholier Support	Marvel .	POWE	Packay	packe,	Taen."	Ball V.	), co	taluation Board Part
	88SE1475	168	PCI-Express 3.0 x8	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	9W	21mm x 21mm	625 HFCBGA	No	0.8mm	EV1-88SE1475
	88SE9171	15	PCI-Express 2.0x1	Tag and Native Command	FIS-Based	Flash BIOS I/F	N/A	0.8w	7mm x 7mm	56-QFN	Yes	0.4mm	EV1-88SE9171

## SAS/SATA Storage Controllers

### **Storage Switching**

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PCIe 2.0x8 to 8 SAS/SATA 6Gb/s Ports RAID Controller

### 88SE9485

PCIe 2.0 x8 to 8 SAS/SATA 6Gb/s Ports I/O Controller

### 88SE9445

PCIe 2.0 x4 to 4 SAS/SATA 6Gb/s Ports I/O Controller

### 88SE1495

PCIe 3.0x8 to 16 Ports 12Gb/s SAS or 6Gb/s SATA Without RAID

### 88SE1485

PCIe 3.0x8 to 8 Ports 12Gb/s SAS or 6Gb/s SATA Without RAID

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88RC9580	8	PCI- Express 2.0 x8	Tag and Native Comman d	Yes	Flash BIOS I/F	Yes	N/A	~8W	27mm x 27mm	676-FCBGA	1.0mm	DB1-88RC9580
88SE9485	8	PCI- Express 2.0 x8	Tag and Native Comman d	Yes	Flash BIOS I/F	No	N/A	~6W	23mm x 23mm	484-HSBGA	1.0mm	HA2VA6800m-RC1Vxx
88SE9445	4	PCI- Express 2.0 x4	Tag and Native Comman d	Yes	Flash BIOS I/F	Yes	N/A	~5W	19mm x 19mm	481-TFBGA	0.8mm	EV1-88SE9445
88SE1495	16	PCI- Express 3.0 x8	Tag and Native Comman d	Yes	Flash BIOS I/F	Yes	N/A	9.5W	21mm x 21mm	625 HFCBGA	0.8mm	EV1-88SE1485
88SE1485	8	PCI- Express 3.0 x8	Tag and Native Comman	Yes	Flash BIOS I/F	Yes	N/A	7.5W	21mm x 21mm	625 HFCBGA	0.8mm	EV1-88SE1485

M A R V E L L°

#### SATA Port Multiplier/Multiplexer **Storage Switching** 88SM9715 88SM9715 6 SATA 6Gb/s 0.88W 10mm x 10mm 84-QFN Yes EV1-88SM9715 1 Port to 5 Port 6Gb/s SATA Port Multiplier With Enclosure Management 88SM9705 88SM9705 6 SATA 6Gb/s 0.88W 10mm x 10mm 84-QFN Yes EV1-88SM9705 1 Port to 5 Port 6Gb/s SATA Port Multiplier 88SM9602 88SM9602 3 SATA 6Gb/s 0.50W 6mm x 6mm 48-MQFN EV1-88SM9602 1 Port to 2 Port 6Gb/s SATA Port 88SM4140 88SM4140 5 SATA 3Gb/s 1.6W 12mm x 12mm 80-LQFP DB1-88SM4140C1-8087 1:4 Serial ATA 3Gb/s Port Multiplier SATA Bridge **Storage Switching** 88SA8052 88SA8052 0.25W Host or Device SATA 3Gb/s to PATA 133 9mm x 9mm 64-QFN or TQFP Yes (QFN) DB-88SA8052-D, DB-88SA8052-H SATA/PATA Bridge

M A R V E L L° STORAGE

### SAS to SATA Protocol Converter

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88SF9210 6Gb/s SAS to SATA Protocol Converter	
88SF9110 6Gb/s SAS to SATA Protocol Converter	

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88SF9210	2	2	SAS/SATA 6.0 Gb/s	N/A	1.35W	10mm x 10mm	84-QFN		DB1-88SF9210
88SF9110	2	1	SAS/SATA 6.0 Gb/s	N/A	1.20W	10mm x 10mm	84-QFN		DB1-88SF9110

M A R V E L L° SOHO SWITCHING

### Link Street® - Fast Ethernet Switches

SOHO Switching
88E6020 4-Port FE Switch
88E6070 5-Port FE Switch
88E6071 5-Port FE Switch
88E6085 10-Port FE Switch
88E6065/B 6-Port FE Switch

Port Confiduration	Test of Ports	Zem.	be of MATAN	MI toodbase +	RGM	7	3	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		A A A A A A A A A A A A A A A A A A A	2326 F.Y
2 PHYs 2 MII/RMII	4	0	O	O	0	1	2	2	2	o	1
5 PHYs	5	o	o	O	0	O	o	o	5	o	1
5 PHYs 2 RMII (or 1 MII/RGMII)	7	0	0	0	0	2	1	2	5	o	1
8 PHYs 2 MII	10	o	o	0	o	0	2	o	8	o	o
5 PHYs 1 MII or 4 PHYs 2 MII	6	0	0	0	0	0	2	2	5	0	2

# Link Street® - Fast Gigabit Ethernet Switches

**SOHO Switching** 

88E6046 6-Port FE+GE Switch



MARVELL® **SOHO SWITCHING** 

### Link Street® - Fast Gigabit **Ethernet Switches**

# **SOHO Switching** 88E6240 7-Port FE+GE Switch 88E6097 11-Port FE+GE Switch 88E6097F 11-Port FE+GE Switch 88E6290 11-Port AVB FE+GE Switch

Port Confiduration	250 POLES	Aumoe,	SCANII SCANII	-1000Base +	ACA.	3	R <sub>A</sub>	0080	1000	100 B	£ \$ \$
4 FE PHYS 1 GE PHY 1 Serdes 1 RGMII/MII/RMII 1 GMII/RGMII/ MII/RMII	7	o	o	1	1	2	2	2	5	1	1
8 FE PHYs GMII/RGMII/SGMII	11	0	0	3	1	1	2	0	8	0	0
8 FE PHYs GMII/RGMII/SGMII	11	0	0	3	2	1	2	0	8	0	8
8 FE PHYs 1 RGMII/MII/RMII 2 2.5G Serdes/SGMII	11	2	0	2	0	1	1	1	8	0	0

# Link Street® - Gigabit Ethernet **Switches**

# **SOHO Switching** 88E6341 6-Port AVB GE Switch 88E6155 6-Port GE Switch

Port Confiduration	Took of Ports	Numbe	S. Or (B) AND S. C. MINISTER S. C. M	: 1000Base +	\$GV	3/	R <sub>A</sub>	0080	000	100Be	60 P.
4 GE PHYs 1 RGMII/MII/RMII 1 2.5G/1G SERDES	6	1	0	1	0	1	1	1	4	4	o
6 SerDes or 5 SerDes 1 GMII	6	0	o	6	1	0	1	0	o	o	0

M A R V E L L° SOHO SWITCHING

### Link Street® - Gigabit Ethernet Switches

# SOHO Switching 88E6352

7-Port AVB GE Switch

88E6321

7-Port AVB GE Switch

88E6185

10-Port GE Switch

88E6390

11-Port AVB GE Switch, 8 GE PHYs + 1 RGMII/MII/RMII + 2 2.5G Serdes/SGMII

88E6122

6-Port GE Switch

88E6131

8-Port GE Switch

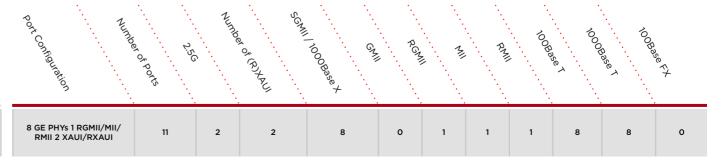
Port Confiduration	2, of ports	Aumbe.	S. O. (W. AN)	[000Base +	RGM.	7	A <sub>A</sub>	0080	6	0000	Se XY
5 GE PHYs 1 Serdes 1 RGMII/MII/ RMII 1 GMII/RGMII/MII/RMII	7	0	0	1	1	2	2	2	5	5	1
2 GE PHYs 3 RGMII/MII/RGMII 2 Serdes/SGMII	7	0	0	2	1	3	3	3	2	2	2
10 SerDes or 9 SerDes 1 GMII	10	0	0	10	1	0	1	0	0	0	0
8 GE PHYs 1 RGMII/MII/RMII 2 2.5G Serdes/SGMII	11	2	o	2	0	1	1	1	8	8	0
2 GE PHYs 3 SerDes 1 GMII	6	0	0	3	1	0	1	0	2	2	3
3 GE PHYs 4 SerDes 1 GMII	8	o	0	4	1	0	1	0	3	3	4

# Link Street® - Gigabit 10G Ethernet Switches

### **SOHO Switching**

88E6390X

11-Port AVB GE+10G Switch



MARVELL® **SWITCHING** 

# PRESTERA® DX **Switching** DX Series Prestera-DX107 10-Port Gigabit Ethernet Packet Processor Prestera-DX160 16-Port Gigabit Ethernet Packet Processor Prestera-DX167 16-Port Gigabit Ethernet Packet Processor Prestera-DX240 24-Port Gigabit Ethernet Packet Processor Prestera-DX249

Prestera-DX269

Prestera-DX253

24-Port Gigabit Ethernet with 2 HX/HGS Ports Packet Processor

24-Port Gigabit Ethernet Packet Processor

24-Port Gigabit Ethernet with 2 HX Ports Packet Processor

### Prestera-DX273

24-Port Gigabit Ethernet with 3 HGS Ports Packet Processor

### Prestera-DX5128

24-Port Gigabit Ethernet with 4 10GE Ports Packet Processor

98DX107-xx-LKJ	10 SGMII	Layer 2/3	DB-DX107-10G, RD-DX107-48F4G	10	14mm x 20mm	128-LQFP	Yes
98DX160-xx	16 SGMII	Layer 2	RD-DX240-24G	16	31mm x 31mm	458-HSBGA	
98DX167-xx	16 SGMII	Layer 2/3	RD-DX247-24G	16	31mm x 31mm	458-HSBGA	Yes
98DX240-xx	24 SGMII	Layer 2	RD-DX240-24G	24	31mm x 31mm	458-HSBGA	
98DX249-xx	24 SGMII, 2 HX	Layer 2	DB-DX249-24G-2HX	26	31mm x 31mm	480-HSBGA	
98DX253-xx	24 SGMII	Layer 2/3	DB-DX273-24G3XG, RD- DX273-48G2XG	24	37.5mm x 37.5mm	788-HSBGA	Yes
98DX269-xx	24 SGMII, 3 HX/ XAUI	Layer 2	DB-DX269-24G-2HX-IB	27	37.5mm x 37.5mm	788-HSBGA	
98DX273-xx	24 SGMII, 3 XAUI	Layer 2/3	DB-DX273-24G3XG, RD- DX273-48G2XG	27	37.5mm x 37.5mm	788-HSBGA	
98DX5128-xx	24 SGMII, 4 XAUI	Layer 3	DB-DX3-6XG-4HGS, RD- DX3-48GE-4HGS	28	35mm x 35mm	1138-FCBGA	-

M A R V E L L° **SWITCHING** 

### PRESTERA® DX

### **Switching**

Prestera-DX8110 10-Port 10Gigabit Ethernet Packet Processor

Prestera-DXx24

24-Port Gigabit Ethernet Packet Processor

Prestera-DXx16

16-Port Gigabit Ethernet Packet Processor

Prestera-DXx08

8-Port Gigabit Ethernet Packet Processor

Part Numbers	of County of State of	8	Evaluation Boards	Not of Ports	bacc.	Lage Upe	
98DX8110-xx	10 XAUI	Layer 3	DB-DX3-6XG-4HGS, RD- DX3-48GE-4HGS	10	35mm x 35mm	1138-FCBGA	
98DX324-A0-LKJ2C000, 98DX224-A0- LKJ2C000	6 QSGMII	Layer 2	RD-DX-24G-A RD-DX-22GE2C-A	24	14mm x 20mm	LQFP	No
98DX316-A0-LKJ2C000, 98DX216-A0- LKJ2C000	4 QSGMII	Layer 2	RD-DX-16UNM	16	14mm x 20mm	LQFP	No
98DX308-A0-LKJ2C000, 98DX208-A0- LKJ2C000	2 QSGMII	Layer 2	RD-DX-8G-A	8	14mm x 20mm	LQFP	No

### PRESTERA® CX

### Switching

CX Series Packet Processors

Prestera-CX8248	
Prestera-CX8234	

98CX8248	48 RXAUI	L3	RD-CX-48XG	48	40mm x 40mm	HFCBGA
98CX8234	32 RXAUI 4 * 40GbE	L3	DB-CX-48XG	32	40mm x 40mm	HFCBGA

M A R V E L L° SWITCHING

Intelligent Ethernet MAC	Part Numbers	Confiduration	aper of ports	WAC Speed	W Port	pack	#pll.	packe	Ten.	Ball Picty	Liation Boards
Switching  Gigabit Ethernet MAC Controllers		<u> </u>					<u> </u>			<u>.                                    </u>	
Prestera-MV82104-Cx 4xl 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	MV82210-Cx	XAUI	1	10 Gbps	SPI 4.2	Yes	35mm x 35mm	672	HSBGA	1.0mm	
1x10 GE Gigabit Ethernet MAC Controller (XAUI <-> SPI-4.2)  Secure MAC/PHY							3311111				
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	

M A R V E L L° **TRANSCEIVERS** 

Fast Ethernet (FE) PHY	Number of Ports	MACSec CLIMACHAPATE (1588 Y).						Mac Interfaces	Digit	Phalog 40'	Internal Res	Aluxual Caple		ر آر : آر	JAPG JAPG	Packo	ae Noe
Transceivers	Orts	. % .	CMOR		88 (D)	m,	<del>}</del> .	, , , , , , , , , , , , , , , , , , ,	ode .		, reserve	lator .	rester.	E .	leen*		Joe
Single-Port Devices																	
88E3015 10/100BASE-T Fast Ethernet PHY		Yes	No	No	No	Yes	Yes	MII, RGMII	1.2V	2.5V/3.3V	2.5V	Yes	Yes	Yes	R	No	56-QFN
88E3016 10/100BASE-T Fast Ethernet PHY		Yes	No	No	No	Yes	Yes	RGMII	1.2V	2.5V/3.3V	2.5V	Yes	Yes	Yes	R	Yes	64-QFN
88E3018 10/100BASE-T Fast Ethernet PHY		Yes	No	Yes	No	Yes	Yes	MII, RGMII	1.2V	2.5V/3.3V	2.5V	Yes	Yes	Yes	R	Yes	64-QFN

Octal-Port Devices																	
88E3082 10/100BASE-T Octal PHY	8	Yes	No	Yes	No	Yes	Yes	RMII, SMII, SSSMII, DDR-SSSMII	1.5V	2.5V/3.3V	2.5V	Yes	Yes	Yes	R	Yes	224-TFBGA
88E3083 10/100BASE-T Octal PHY	8	Yes	No	No	No	Yes	Yes	SMII, SSSMII, DDR-SSSMII	1.5V	2.5V/3.3V	2.5V	Yes	Yes	Yes	R	Yes	128-LQFP

No

MII, RMII, RGMII

1.2V

2.5V/3.3V

2.5V

No

Yes

Yes

G

No

32-QFN

No

No

No

No

Yes

88E3019

10/100BASE-T Fast Ethernet PHY

M A R V E L L° TRANSCEIVERS

# 1-Gigabit Ethernet (ALASKA®) Authorized to the control of the con

Transceivers		. :	જ .		8	· ·		. S	rces .						. · ·	Ϋ́	. •	· ·	
Single Port Devices																			
Alaska 88E1518 EEE 10/100/1000BASE-T PHY with RGMII	1	No	No	No	No	Yes	Yes	10M/100M/1G	No	RGMII	Yes	1.0V	1.8V	1.8V/3.3V	Switch- cap Regulator	Yes	25 MHz	No	48-QFI
Alaska 88E1514P EEE 10/100/1000BASE-T PHY with SGMII, Copper/ Fiber Automedia Detect and Low-Latency (1Step-PTP) 1588 v2 support	1	No	No	No	Yes	Yes	Yes	10M/100M/1G	No	SGMII	Yes	1.0V	1.8V/2.5V/3.3V	1.8V/3.3V	Switch- cap Regulator	Yes	25 MHz	No	56-QF1
Alaska 88E1514 EEE 10/100/1000BASE-T PHY with SGMII, Copper/ Fiber Automedia Detect	1	No	No	No	No	Yes	Yes	10M/100M/1G	No	SGMII	Yes	1.0V	1.8V/2.5V/3.3V	1.8V/3.3V	Switch- cap Regulator	Yes	25 MHz	No	56-QF1
Alaska 88E1512P EEE 10/100/1000BASE-T PHY with RGMII, SGMII, Copper/Fiber Automedia Detect and Low-Latency (1Step-PTP) 1588 v2 support	1	Yes	No	Yes	Yes	Yes	Yes	10M/100M/1G	SGMII, 100BASE-FX, 1000BASE-X, SFP	RGMII, SGMII, MII	Yes	1.0V	1.8V/2.5V/3.3V	1.8V/3.3V	Switch- cap Regulator	Yes	25 MHz	No	56-QFN
Alaska 88E1512 EEE 10/100/1000BASE-T PHY with RGMII, SGMII Copper/Fiber Automedia Detect	1	Yes	No	Yes	No	Yes	Yes	10M/100M/1G	SGMII, 100BASE-FX, 1000BASE-X, SFP		Yes	1.0V	1.8V/2.5V/3.3V	1.8V/3.3V	Switch- cap Regulator	Yes	25 MHz	No	56-QF1
Alaska 88E1510Q EEE 10/100/1000BASE-T PHY with RGMII and Low- Latency (1Step-PTP) 1588 v2 support	1	No	No	Yes	Yes	Yes	Yes	10M/100M/1G	No	RGMII	Yes	1.0V	1.8V/2.5V/3.3V	1.8V/3.3V	Switch- cap Regulator	Yes	25 MHz	No	48-QFI
Alaska 88E1510P EEE 10/100/1000BASE-T PHY with RGMII and Low- Latency (1Step-PTP) 1588 v2 support	1	No	No	Yes	Yes	Yes	Yes	10M/100M/1G	No	RGMII, MII	Yes	1.0V	1.8V/2.5V/3.3V	1.8V/3.3V	Switch- cap Regulator	Yes	25 MHz	No	48-QFI
Alaska 88E1510 EEE 10/100/1000BASE-T PHY with RGMII	1	No	No	Yes	No	Yes	Yes	10M/100M/1G	No	RGMII	Yes	1.0V	2.5V/3.3V	1.8V/3.3V	Switch- cap Regulator	Yes	25 MHz	No	48-QF

M A R V E L L° TRANSCEIVERS

1-Gigabit Ethernet (ALASKA®)  Transceivers	mber of K	Optical CI	MACSec (Link)	Lemo	1,5kep PIP (150	2-Step PI	Synck	BASE	Optical (SO	Mac Intelligences	Energy Ether	Core Volve	Didle.	Paglod 4	Internal Res	Integrated Par	Reference C.	JAPG	Package	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Alaska 88E1112 10/100/1000BASE-T PHY with Dual SERDES/SGMII		1	Yes	No	Yes	No	No	No	10M/100M/1G	100BASE-FX, 1000BASE-X, SFP	SGMII	No	1.2V	2.5V	2.5V	No	No	25 MHz	No	64-QFN
Alaska 88E1111 10/100/1000BASE-T PHY with multiple MAC Interfaces		1	Yes	No	Yes	No	No	No	10M/100M/1G	SGMII, 100BASE-FX, 1000BASE-X, SFP	RGMII, SGMII, GMII, MII,TBI, RTBI	No	1.0V/1.2V	2.5V	2.5V	No	No	25, 125 MHz	Yes	Multiple Packages
Quad-Port Devices																				
Alaska 88E1548P EEE 100/100/1000BASE-T PHY with QSGMII		4	Yes	Yes	Yes	Yes	Yes	Yes	10M/100M/1G	SGMII, 100BASE-FX, 1000BASE-X, SFP	SGMII, QSGMI I	Yes	1.0V	1.2V/1.8V/ 2.5V/3.3V	1.8V/3.3V	No	Yes	25, 125, 156.25 MHz	Yes	15mm x 15mm 196-pin TFBGA
Alaska 88E1548M EEE 100/10001000BASE-T PHY with SGMII plus MACSec, Automedia Detect		4	Yes	Yes	No	No	Yes	Yes	10M/100M/1G	SGMII, 100BASE-FX, 1000BASE-X, SFP	SGMII, QSGMI I	Yes	1.0V	1.2V/1.8V/ 2.5V/3.3V	1.8V/3.3V	No	Yes	25, 125, 156.25 MHz	Yes	196-TFBGA
Alaska 88E1548 EEE 100/100/1000BASE-T PHY with QSGMII		4	Yes	No	No	No	No	No	10M/100M/1G	SGMII, 100BASE-FX, 1000BASE-X, SFP	SGMII, QSGMI I	Yes	1.0V	1.2V/1.8V/ 2.5V/3.3V	1.8V/3.3V	No	Yes	25, 125, 156.25 MHz	Yes	15mm x 15mm 196-pin TFBGA
Alaska 88E1545M EEE 100/1000/1000BASE-T PHY with QSGMII plus MACSec		4	No	Yes	No	No	No	No	10M/100M/1G	No	QSGMII	Yes	1.0V	1.2V/1.8V/ 2.5V/3.3V	1.8V/3.3V	No	Yes	25, 125, 156.25 MHz	Yes	128-LQFP
Alaska 88E1545 EEE 100/100/1000BASE-T PHY with QSGMII		4	No	No	No	No	No	No	10M/100M/1G	No	QSGMII	Yes	1.0V	1.2V/1.8V/ 2.5V/3.3V	1.8V/3.3V	No	Yes	25, 125, 156.25 MHz	Yes	128-LQFP
Alaska 88E1543M EEE 100/1000/1000BASE-T PHY with SGMII plus MACSec		4	Yes	Yes	No	No	No	No	10M/100M/1G	SGMII, 100BASE-FX, 1000BASE-X, SFP	SGMII	Yes	1.0V	2.5V/3.3V	1.8V/3.3V	No	Yes	25, 125, 156.25 MHz	Yes	128-LQFP
Alaska 88E1543 EEE 100/100/1000BASE-T PHY with SGMII		4	Yes	No	No	No	No	No	10M/100M/1G	SGMII, 100BASE-FX, 1000BASE-X, SFP	SGMII	Yes	1.0V	2.5V/3.3V	1.8V/3.3V	No	Yes	25, 125, 156.25 MHz	Yes	128-LQFP

M A R V E L L® TRANSCEIVERS

1-Gigabit Ethernet (ALASKA®)  Transceivers	Optical CIII	MACSec (LINK)	Lemo	J.Step PTP (150	2-Step Pir	Synck	BASET	Optical (Sommi	Mac Intellaces	Energy Ethernet	Core Joke	D. D	Programme And No.	Internal Res	Integrated Par	Reference	SAG.	Package	2400
Alaska 88E1540M EEE 100/100/1000BASE-T PHY with QSGMII plus MACSec	4	No	Yes	No	No	Yes	Yes	10M/100M/1G	No	QSGMII	Yes	1.0V	1.2V/1.8V/ 2.5V/3.3V	1.8V/3.3V	No	Yes		Yes	196-TFBGA
Octal-Port-Devices																			
Alaska 88E1685 EEE 10/100/1000BASE-T PHY with QSGMII	8	No	No	No	No	No	No	10M/100M/1G	No	QSGMII	Yes	0.9V	1.2V/1.8V/ 2.5V/3.3V	1.5V/1.8V	No	Yes	125 MHz	Yes	128-LQFP
Alaska 88E1680M EEE 10/100/1000BASE-T PHY with QSGMII plus MACSec, PTP, SyncE	8	No	Yes	No	Yes	Yes	Yes	10M/100M/1G	No	QSGMII	Yes	0.9V	1.2V/1.8V/ 2.5V/3.3V	1.5V/1.8V	No	Yes	125, 156.25 MHz	Yes	128-LQFP
Alaska 88E1680 EEE 10/100/1000BASE-T PHY with QSGMII, MACSec, PTP, SyncE	8	No	No	No	No	Yes	Yes	10M/100M/1G	No	QSGMII	Yes	0.9V	1.2V/1.8V/ 2.5V/3.3V	1.5V/1.8V	No	Yes	125, 156.25 MHz	Yes	128-LQFP

10-Gigabit Ethernet (ALASKA® X)	Number of		MACSec Ciny	Lamp	VSKED DAD (V	7.5xep P	Synck	- choported	Host 1.	Optical Inte	· · · · · · · · · · · · · · · · · · ·	Direct Attach	Energy Ether	Cote Aolto	Digital	Phalod 1	Reference (	TAGE STATE	Packs	
Transceivers		OOKS		Syps .			à :. : :	1	oeeds	aces	race		John John John John John John John John	Clent	ģ	· ·	rage	6 C*		
Copper (Base-T) PHYs																				
Alaska X 88X3340P Quad EEE 10/100/1G/2.5G/5G/10GBASE-T PHY with XFI, MACSec, PTP		4	Yes	Yes	No	Yes	Yes	Yes	10G, 5G, 2.5G, 1G, 100M, 10M	USXGMII, XFI, RXAUI, 5GBASE-R, 2500BASE- X, SGMII	XFI/SFI	10GBASE-SR/ER/LR, 1000BASE-SX/LX	Yes	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V			Yes	484-HFCBGA

M A R V E L L° **TRANSCEIVERS** 

10-Gigabit Ethernet (ALASKA® X)	Optical C	MPCSec (Links)	Lemo	1, step PTP (	7.5xep P.	Synck	Supported	Host	Optical Inter	000	Direct Attact C	Energy Ethernet	Core Jokas	Didikal	Phalog Vo	Reference	TAG	Packe	hade type
Transceivers	Ports .	(No)	CNOR		,	8 .		needs.	aces	kace .	6 170°	Dobbe Tex	Jokas	€ .	0 .	tage	CX CX		40°
Alaska X 88X3340 Quad EEE 10/100/1G/2.5G/5G/10GBASE-T PHY with XFI	4	Yes	No	No	No	No	Yes	10G, 5G, 2.5G, 1G, 100M, 10M	USXGMII, XFI, RXAUI, 5GBASE-R, 2500BASE- X, SGMII	XFI/SFI	10GBASE-SR/ER/LR, 1000BASE-SX/LX	Yes	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 1.8V/2.0V, 2.3V/2.5V	50, 156.25 MHz	Yes	484-HFCBGA
Alaska X 88X3310P Single EEE 10/100/1G/2.5G/5G/10GBASE-T PHY with XFI, MACSec, PTP	1	Yes	Yes	No	Yes	Yes	Yes	10G, 5G, 2.5G, 1G, 100M, 10M	USXGMII, XFI, RXAUI, XAUI, 5GBASE-R, 2500BASE- X, SGMII	XFI/SFI	10GBASE-SR/ER/LR, 1000BASE-SX/LX	Yes	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 1.8V/2.0V, 2.3V/2.5V	50, 156.25 MHz	Yes	168-HFCBGA
Alaska X 88X3310 Single EEE 10/100/1G/2.5G/5G/10GBASE-T PHY with XFI	1	Yes	No	No	No	No	Yes	10G, 5G, 2.5G, 1G, 100M, 10M	USXGMII, XFI, RXAUI, XAUI, 5GBASE-R, 2500BASE- X, SGMII	XFI/SFI	10GBASE-SR/ER/LR, 1000BASE-SX/LX	Yes	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 1.8V/2.0V, 2.3V/2.5V	50, 156.25 MHz	Yes	168-HFCBGA
Alaska X 88X3240P Quad EEE 10/100/1G/10GBASE-T PHY with XFI, MACSec, PTP	4	Yes	Yes	No	Yes	Yes	Yes	10G, 1G, 100M, 10M	XFI, RXAUI, SGMII	XFI/SFI	10GBASE-SR/ER/LR, 1000BASE-SX/LX	Yes	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 2.0V, 2.5V	50, 156.25 MHz	Yes	484-HFCBGA
Alaska X 88X3240 Dual EEE 10/100/1G/10GBASE-T PHY with XFI	4	Yes	No	No	No	No	Yes	10G, 1G, 100M, 10M	XFI, RXAUI, SGMII	XFI/SFI	10GBASE-SR/ER/LR, 1000BASE-SX/LX	Yes	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 2.0V, 2.5V	50, 156.25 MHz	Yes	484-HFCBGA
Alaska X 88X3220P  Dual EEE 10/100/1G/10GBASE-T PHY with XFI, MACSec, PTP	2	Yes	Yes	No	Yes	Yes	Yes	10G, 1G, 100M, 10M	XFI, RXAUI, SGMII	XFI/SFI	10GBASE-SR/ER/LR, 1000BASE-SX/LX	Yes	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 2.0V, 2.5V	50, 156.25 MHz	Yes	256-HFCBGA
Alaska X 88X3220 Dual EEE 10/100/1G/10GBASE-T PHY with XFI	2	Yes	No	No	No	No	Yes	10G, 1G, 100M, 10M	XFI, RXAUI, SGMII	XFI/SFI	10GBASE-SR/ER/LR, 1000BASE-SX/LX	Yes	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 2.0V, 2.5V	50, 156.25 MHz	Yes	256-HFCBGA
Fiber/Backplane PHYs																			
Alaska X 88X2340P Quad-10G PHY with MacSec and PTP	4	Yes	Yes	No	Yes	Yes	No	10G, 1G	XFI	XFI/SFI	10GBASE-SR/ER/LR, 1000BASE-SX/LX	Yes	No	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 1.8V/2.0V, 2.3V/2.5V	50, 156.25 MHz	Yes	484-HFCBGA

MARVELL® **TRANSCEIVERS** 

### 10-Gigabit Ethernet (ALASKA® X)

#### Leseo PIP (1588 12) Optical Interface Core Volkage **Transceivers** 1.2V/1.5V/ 1.5V, 50, Alaska X 88X2320P 10G. 10GBASE-SR/ER/LR. 2 Yes Yes No Yes Yes No XFI XFI/SFI Yes No 0.80V 1.8V/2.5V 1.8V/2.0V. 156.25 Yes 256-HFCBGA 1000BASE-SX/LX Dual-10G PHY with MacSec and PTP 1G /3.3V 2.3V/2.5V MHz 40GBASE-SR4/ Alaska X 88X2242 LR4. 10GBASE-SR/ 40G. XLAUI. XFI. 156.25. SFI. 40G/Quad-10G EDC PHY ER/LR, 10GBASE-1.5V/1.8V/ 1.1V/1.5V Yes Yes Yes 10G, XAUI, Yes No 1.0V 155.52 Yes 324-FCBGA No No Yes XLPPI SW/EW/LW, 2.5V/3.3V 1G RXAUI MHz 10GBASE-LRM. 1000BASE-SX/LX 10GBASE-SR/ER/ 156.25. Alaska X 88X2222 LR. 10GBASE-SW/ 10G. XAUI. 1.5V/1.8V/ 1.0V 1.1V/1.5V 2 Yes No No No No Yes SFI Yes No 155.52 324-FCBGA EW/LW. 10GBASE-2.5V/3.3V RXAUI, XFI Dual-10G EDC PHY with MacSec MHz LRM. 1000BASE-X 40GBASE-SR4/ Alaska X 88X2242M LR4, 10GBASE-SR/ 40G, XLAUI, XFI, 156.25, SFI. ER/LR, 10GBASE-1.5V/1.8V/ 40G/Quad-10G EDC PHY with MacSec 4 Yes Yes No No Yes 10G. XAUI. Yes No 1.0V 1.1V/1.5V 155.52 Yes 324-FCBGA No XLPPI SW/EW/LW, 2.5V/3.3V **RXAUI** MHz 10GBASE-LRM, 1000BASE-SX/LX 10GBASE-SR/ER/ 156.25. Alaska X 88X2222M LR. 10GBASE-SW/ 10G. XAUI. 1.5V/1.8V/ 2 Yes Yes No No No Yes Yes No 1.0V 1.1V/1.5V 155.52 324-FCBGA 2.5V/3.3V RXAUI, XFI EW/LW, 10GBASE-Dual-10G EDC PHY with MacSec 1G MHz LRM. 1000BASE-X 10GBASE-SR/ER/ XAUI. 156.25. Alaska X 88X2242P 10G, LR, 10GBASE-SW/ 1.5V/1.8V/ Yes Yes RXAUI, XFI, SFI Yes 1.0V 1.1V/1.5V 155.52 Yes 324-FCBGA Yes No Yes Yes No 1G EW/LW, 10GBASE-2.5V/3.3V 40G/Quad-10G EDC PHY with MacSec and PTP KR MHz LRM. 1000BASE-X 10GBASE-SR/ER/ 156.25. XAUI. Alaska X 88X2222P 10G, LR, 10GBASE-SW/ 1.5V/1.8V/ 2 Yes RXAUI, XFI, SFI 1.0V 1.1V/1.5V 155.52 324-FCBGA Yes Yes Yes No Yes Yes No Yes 1G EW/LW. 10GBASE-2.5V/3.3V Dual-10G EDC PHY with MacSec, and PTP KR MHz LRM, 1000BASE-X

M A R V E L L° **TRANSCEIVERS** 

Copper (NBASE-T) Multispeed

Ethernet (ALASKA® M)	Se of (s)	Cine	Jemo Jemo		, , , , , , , , , , , , , , , , , , ,	. Synck	Coppen		Interfaces	Todule	Tach,	Ethernet Oy El	e Volka	المالي	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Nolkage	JAK STAGE		age type
Transceivers	Ot Ports	% 	(A) 6x		tep (	⋄ ·. . · ·	:.® ::::	eeds .	ces	face	, types	ethernet Ethernet	Clent	ge		, , , , , , , , , , , , , , , , , , ,	% · · · ·		Joe .
88E2180 Octal EEE 10/100/1G/2.5G/5GBASE-T PHY	8	No	No	Yes	No	No	Yes	5G, 2.5G, 1G, 100M, 10M	USXGMII-M, XFI, 5GBASE-R, 2500BASE-X, SGMII	No	No	No	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 1.8V, 3.3V	50, 156.25 MHz	Yes	529-HFCBGA
88E2110 Single EEE 10/100/1G/2.5G/5GBASE-T PHY	1	No	No	Yes	No	No	Yes	5G, 2.5G, 1G, 100M, 10M	USXGMII-M, XFI, 5GBASE-R, 2500BASE-X, SGMII	No	No	No	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 1.8V, 3.3V	50, 156.25 MHz	Yes	104-HFCBGA
88E2040P Quad EEE 10/100/1G/2.5G/5GBASE-T PHY with MACSec, PTP	4	No	Yes	No	Yes	Yes	Yes	5G, 2.5G, 1G, 100M, 10M	USXGMII, XFI, RXAUI, 5GBASE-R, 2500BASE- X, SGMII	No	No	No	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 1.8V/2.0V, 2.3V/2.5V	50, 156.25 MHz	Yes	484-HFCBGA
88E2040 Quad EEE 10/100/1G/2.5G/5GBASE-T PHY	4	No	No	No	No	No	Yes	5G, 2.5G, 1G, 100M, 10M	USXGMII, XFI, RXAUI, 5GBASE-R, 2500BASE- X, SGMII	No	No	No	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 1.8V/2.0V, 2.3V/2.5V	50, 156.25 MHz	Yes	484-HFCBGA
88E2010P Single EEE 10/100/1G/2.5G/5GBASE-T PHY with MACSec, PTP	1	No	Yes	No	Yes	Yes	Yes	5G, 2.5G, 1G, 100M, 10M	USXGMII, XFI, RXAUI, 5GBASE-R, 2500BASE- X, SGMII	No	No	No	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 1.8V/2.0V, 2.3V/2.5V	50, 156.25 MHz	Yes	168-HFCBGA
88E2010 Single EEE 10/100/1G/2.5G/5GBASE-T PHY	1	No	No	No	No	No	Yes	5G, 2.5G, 1G, 100M, 10M	USXGMII, XFI, RXAUI, 5GBASE-R, 2500BASE- X, SGMII	No	No	No	Yes	0.80V	1.2V/1.5V/ 1.8V/2.5V /3.3V	1.5V, 1.8V/2.0V, 2.3V/2.5V	50, 156.25 MHz	Yes	168-HFCBGA

M A R V E L L° **WIRELESS** 

AVASTAR™	Part Number	Witeless upoort	Package Support	Ne Ape	Strenge Stre	Embe.	added CPV	3	Evaluation Boards	
Wireless	× ·	00/00/00/00/00/00/00/00/00/00/00/00/00/		₹ ·.	6		χυ ·.		ands	
AVASTAR 8900 Family										
88W8997	88W8997	802.11 a/b/g/n/ac 2x2 + BT 4.0, Dual-mode	PCIE, SDIO 3.0, USB 3.0/2.0, UART	QFN, CSP	9mm x 9mm & Chip Scale	400um, 350um	Yes	-30 to +85C	RD-88W-8997-PCIe/SD/USB	28nm
88W8977	88W8977	802.11 a/b/g/n/ac 1x1 + BT 4.0, Dual-mode	SDIO 3.0, UART	QFN, eWLP	8mm x 8mm & Wafer-Level	400um	Yes	-30 to +85C	RD-88W-8977e/Q	28nm
88W8964	88W8964	802.11 a/b/g/n/ac 4x4	PCIE, UART	aQFN	11.8mm x 11mm	650um	Yes	0 to +70C	RD-88W-AP8964-DR2	28nm
AVASTAR 8800 Family										
88W8897	88W8897	802.11 a/b/g/n/ac 2x2 + BT 4.0, Dual-mode	PCIE, SDIO 3.0, USB 2.0, UART	QFN, CSP	9.5mm x 11mm & Chip Scale	400um	Yes	-30 to +85C	RD-88W-8897PCle/SD	40nm
88W8887	88W8887	802.11a/b/g/n/ac 1x1 + BT 4.0 Dual-mode	SDIO 3.0, UART	QFN, CSP	9mm x 9mm & Chip Scale	400um	Yes	-30 to +85C	RD-88W-8887-AGC/Q	40nm
88W8864	88W8864	802.11 a/b/g/n/ac 4x4	PCIE, UART	aQFN	11.8mm x 11mm	800um	Yes	0 to +70C	RD-88W-AP-8864DR2	40nm
88W8801	88W8801	802.11a/b/g/n 1x1 Dual- mode	SDIO 3.0, USB 2.0	QFN	6mm x 6mm	400um	Yes	-30 to +85C	RD-88W-SD/USB 8801	40nm

M A R V E L L° ABOUT

### Marvell

Marvell first revolutionized the digital storage industry by moving information at speeds never thought possible. Today, that same breakthrough innovation remains at the heart of the company's storage, network infrastructure, and wireless connectivity solutions. With leading intellectual property and deep system-level knowledge, Marvell's semiconductor solutions continue to transform the enterprise, cloud, automotive, industrial, and consumer markets.

### **Contact Us**

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### **KEY FACTS**

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Patents worldwide 9.000+

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