# ARMADA Series

## Embedded Processors

### ARMADA 7K/8K

| ARMADA 7020 | ARM v8 Cortex A72 Dual Core | 2x 1/2.5GBE x1 10GBE | 1x PCIe3.0 x4/x2/x1 | 2x USB3/ USB2 | 4x UART | 2x SATA3 | 8/16 bit Device bus | 800MHz, 1.0GHz, 1.2GHz, 1.6GHz | LT: 32KB/32KB L2: 1MB unified | 32-bit ECC | 17mm x 17mm | 429L-FCBGA | 0.65mm | Yes | DB-88F7040-A2 | U-Boot, Linux, OpenWRT, Yocto |
| ARMADA 7040 | ARM v8 Cortex A72 Quad Core | 2x 1/2.5GBE x1 10GBE | 1x PCIe3.0 x4/x2/x1 | 2x USB3/ USB2 | 4x UART | 2x SATA3 | 8/16 bit Device bus | 800MHz, 1.0GHz, 1.2GHz, 1.4GHz | LT: 32KB/32KB L2: 1MB unified | 32-bit ECC | 17mm x 17mm | 429L-FCBGA | 0.65mm | Yes | DB-88F7040-A2 | U-Boot, Linux, OpenWRT, Yocto |
| ARMADA 6040 | ARM v8 Cortex A72 Quad Core | 2x 1/2.5GBE x1 10GBE | 1x PCIe3.0 x4/x2/x1 | 2x USB3/ USB2 | 4x UART | 2x SATA3 | 8/16 bit Device bus | 600MHz | LT: 32KB/32KB L2: 1MB unified | 32-bit ECC | 17mm x 17mm | 429L-FCBGA | 0.65mm | Yes | DB-88F7040-A2 | U-Boot, Linux, OpenWRT, Yocto |
| ARMADA 8020 | ARM v8 Cortex A72 Dual Core | 4x 1/2.5GBE x2 10GBE | 1x PCIe3.0 x4/x2/x1 | 4x USB3/ USB2 | 4x UART | 4x SATA3 | 8/16 bit Device bus | 1.0GHz, 1.2GHz, 1.6GHz, 2.0GHz | LT: 32KB/32KB L2: 1MB unified | 32/64-bit ECC | 24mm x 24mm | 816 - FCBGA | 0.8mm | Yes | DB-88F8040-A2 | U-Boot, Linux, OpenWRT, Yocto |
| ARMADA 8040 | ARM v8 Cortex A72 Dual Core | 4x 1/2.5GBE x2 10GBE | 1x PCIe3.0 x4/x2/x1 | 4x USB3/ USB2 | 4x UART | 4x SATA3 | 8/16 bit Device bus | 1.0GHz, 1.2GHz, 1.6GHz, 2.0GHz | LT: 32KB/32KB L2: 1MB unified | 32/64-bit ECC | 24mm x 24mm | 816 - FCBGA | 0.8mm | Yes | DB-88F8040-A2 | U-Boot, Linux, OpenWRT, Yocto |

### ARMADA XP

| MV78230 | ARM v7 Dual Core | 3 x GBE | 2 x PCIe 2.0 x1 | 2x USB2 | 4x UART | 2x SATA2 | 8/16 bit Device bus | 1.06GHz, 1.2GHz, 1.33GHz, 1.6GHz | LT: 32KB/32KB L2: 1MB unified | 32-bit ECC DDR3/L-1600 with ECC | 23mm x 23mm | 732-FCBGA | 0.65mm | DB-MV784MP-GP | u-boot, Linux, vxWorks and others |
| MV78260 | ARM v7 Dual Core | 4 x GBE | 3 x PCIe 2.0 (2 x4 or 4 x1, 1 x4/x8) | 3 x USB2 | 4x UART | 2x SATA2 | 8/16/32 bit Device bus | 1.06GHz, 1.2GHz, 1.33GHz, 1.6GHz | LT: 32KB/32KB-D L2: 1MB unified | 32/64-bit ECC DDR3/L-1600 with ECC | 23mm x 23mm | 732-FCBGA | 0.65mm | DB-MV784MP-GP | u-boot, Linux, vxWorks and others |
EMBEDDED PROCESSORS

**ARMADA Series**

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<th>USB</th>
<th>UART</th>
<th>SATA</th>
<th>Device bus</th>
<th>Frequency</th>
<th>Cache</th>
<th>DDR Controller</th>
<th>Package Size</th>
<th>Package Type</th>
<th>Ball Pitch</th>
<th>Evaluation Board</th>
<th>Software</th>
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<tbody>
<tr>
<td>MV78460</td>
<td>ARM®v7 Quad Core</td>
<td>4 x GbE</td>
<td>4 x PCIe 2.0 (2 x 4 or 2 x 1 and 2 x 4/ x1)</td>
<td>3 x USB2</td>
<td>4 x UART</td>
<td>2 x SATA2</td>
<td>8/16/32 bit Device bus</td>
<td>1.2GHz, 1.33GHz, 1.6GHz</td>
<td>Lt: 32KB/I, 32KB-D; L2: 2MB unified</td>
<td>32/64bit ECC DDR3/L-1600 and DDR4-1800</td>
<td>23mm x 23mm</td>
<td>732-FCBGA</td>
<td>0.65mm</td>
<td>DB-MV784MP-GP</td>
<td>u-boot, Linux, vxWorks and others</td>
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<tr>
<td>ARMADA 380</td>
<td>ARM®v7 Cortex A9 Single Core with NEON</td>
<td>2 x 1/2.5GbE</td>
<td>3 x PCIe 2.0 x1</td>
<td>2 x USB3/ USB2 and 1 x USB2</td>
<td>2 x UART</td>
<td>2 x SATA3</td>
<td>8/16/32 bit Device bus</td>
<td>1.0GHz, 1.33GHz, 1.6GHz</td>
<td>Lt: 32KB/I, 32KB-D; L2: 1MB unified</td>
<td>16-bit, ECC DDR3/ L-1600 and DDR4-1800</td>
<td>17x17mm</td>
<td>372-TFBGA</td>
<td>0.8mm</td>
<td>Yes</td>
<td>DB-B8F6820-GP-A0; DB-B8F6820-AP-A0</td>
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<tr>
<td>ARMADA 381</td>
<td>ARM®v7 Cortex A9 Dual Core with NEON</td>
<td>1 x 1/2.5GbE</td>
<td>3 x PCIe 2.0 x1</td>
<td>1 x USB3/ USB2 and 1 x USB2</td>
<td>2 x UART</td>
<td>2 x SATA3</td>
<td>8/16/32 bit Device bus</td>
<td>1.0GHz, 1.33GHz, 1.6GHz</td>
<td>Lt: 32KB/I, 32KB-D; L2: 1MB unified</td>
<td>16-bit, ECC DDR3/ L-1600 and DDR4-1800</td>
<td>14x14mm</td>
<td>298-TFBGA</td>
<td>0.65mm</td>
<td>No</td>
<td>DB-B8F6821-BP-A0</td>
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<tr>
<td>ARMADA 382</td>
<td>ARM®v7 Cortex A9 Dual Core with NEON</td>
<td>1 x 1/2.5GbE</td>
<td>3 x PCIe 2.0 x1</td>
<td>1 x USB3/ USB2 and 1 x USB2</td>
<td>2 x UART</td>
<td>2 x SATA3</td>
<td>8/16/32 bit Device bus</td>
<td>1.0GHz, 1.33GHz, 1.6GHz, 1.8GHz, 2.0GHz</td>
<td>Lt: 32KB/I, 32KB-D; L2: 1MB unified</td>
<td>16-bit, ECC DDR3/ L-1600 and DDR4-1800</td>
<td>14x14mm</td>
<td>298-TFBGA</td>
<td>0.65mm</td>
<td>No</td>
<td>DB-B8F6821-BP-A0</td>
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<td>ARM®v7 Cortex A9 Dual Core with NEON</td>
<td>3 x 1/2.5GbE</td>
<td>4 x PCIe 2.0 x1 or 1 x4</td>
<td>2 x USB3/ USB2 and 1 x USB2</td>
<td>2 x UART</td>
<td>2 x SATA3</td>
<td>8/16/32 bit Device bus</td>
<td>1.0GHz, 1.33GHz, 1.6GHz, 1.8GHz, 2.0GHz</td>
<td>Lt: 32KB/I, 32KB-D; L2: 1MB unified</td>
<td>16/32-bit, ECC DDR3/ L-1600 and DDR4-1800</td>
<td>17x17mm</td>
<td>372-TFBGA</td>
<td>0.8mm</td>
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<td>DB-B8F6820-GP-A0; DB-B8F6820-AP-A0</td>
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<td>ARMADA 388</td>
<td>ARM®v7 Cortex A9 Dual Core with NEON</td>
<td>3 x 1/2.5GbE</td>
<td>4 x PCIe 2.0 x1 or 1 x4</td>
<td>2 x USB3/ USB2 and 1 x USB2</td>
<td>2 x UART</td>
<td>4 x SATA3</td>
<td>8/16/32 bit Device bus</td>
<td>1.0GHz, 1.33GHz, 1.6GHz, 1.8GHz, 2.0GHz</td>
<td>Lt: 32KB/I, 32KB-D; L2: 1MB unified</td>
<td>16/32-bit, ECC DDR3/ L-1600 and DDR4-1800</td>
<td>17x17mm</td>
<td>372-TFBGA</td>
<td>0.8mm</td>
<td>Yes</td>
<td>DB-B8F6820-GP-A0; DB-B8F6820-AP-A0</td>
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</table>

**ARMADA 375**
# ARMADA Series

## Embedded Processors

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<tr>
<th>Part Number</th>
<th>CPU Base Architecture</th>
<th>Ethernet</th>
<th>PCIe</th>
<th>USB</th>
<th>UART</th>
<th>Device Bus</th>
<th>Frequency</th>
<th>Cache</th>
<th>DDR Controller</th>
<th>Package Size</th>
<th>Package Type</th>
<th>Ball Pitch</th>
<th>Evaluation Board</th>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>88F6720</td>
<td>ARM®v7 Cortex A9 Dual Core with NEON</td>
<td>2 x 1/2.5GbE</td>
<td>1 x PCIe 2.0 x 1</td>
<td>1 x USB3/USB2 and 1 x USB2</td>
<td>1 x UART</td>
<td>1 x SATA2</td>
<td>8/16 bit Device bus, 800MHz 1.0GHz</td>
<td>L1: 32KB-I, 32KB-D; L2: 256KB unified</td>
<td>16/32-bit, DDR3/DDR4-1066</td>
<td>19mm x 19mm</td>
<td>511-TFBGA</td>
<td>0.65mm</td>
<td>DB-88F6720-A0</td>
<td>u-boot, Linux</td>
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<tr>
<td>88F3710</td>
<td>ARM®v8 Cortex A53 Single Core with NEON</td>
<td>2 x 1/2.5GbE</td>
<td>1 x PCIe 2.0 x 1</td>
<td>1 x USB3/USB2 and 1 x USB2</td>
<td>1 x UART</td>
<td>1 x SATA3</td>
<td>800MHz 1.0GHz and 1.2GHz</td>
<td>L1: 32KB-I, 32KB-D; L2: 256KB unified</td>
<td>16 bit DDR3/3L/4</td>
<td>10.5m x 11.5m</td>
<td>27IL TFBGA</td>
<td>0.5mm</td>
<td>DB-88F3720-DDR3-1; DB-88F3720-DDR4-4GB</td>
<td>u-boot, Linux</td>
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<tr>
<td>88F3720</td>
<td>ARM®v8 Cortex A53 Dual Core with NEON</td>
<td>2 x 1/2.5GbE</td>
<td>1 x PCIe 2.0 x 1</td>
<td>1 x USB3/USB2 and 1 x USB2</td>
<td>1 x UART</td>
<td>1 x SATA3</td>
<td>800MHz 1.0GHz and 1.2GHz</td>
<td>L1: 32KB-I, 32KB-D; L2: 256KB unified</td>
<td>16 bit DDR3/3L/4</td>
<td>10.5m x 11.5m</td>
<td>27IL TFBGA</td>
<td>0.5mm</td>
<td>DB-88F3720-DDR3-1; DB-88F3720-DDR4-4GB</td>
<td>u-boot, Linux</td>
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# EZ Connect

## Microcontrollers

### 88MW300
Microcontroller with Wi-Fi connectivity

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<th>88MW302</th>
<th>88MB300</th>
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<td>Processor</td>
<td>ARM Cortex-M4F with MPU</td>
<td>ARM Cortex-M4F with MPU</td>
<td>ARM Cortex-M3 with MPU</td>
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<tr>
<td>Frequency</td>
<td>200 MHz</td>
<td>200 MHz</td>
<td>128 MHz</td>
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<tr>
<td>Connectivity</td>
<td>802.11 b/g/n 1x1</td>
<td>802.11 b/g/n 1x1</td>
<td>Bluetooth 4.2, BDR/EDR BLE</td>
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<tr>
<td>Memory</td>
<td>ROM: 128KB, SRAM: 512KB, Always-On SRAM: 4KB</td>
<td>ROM: 128KB, SRAM: 512KB, Always-On SRAM: 4KB</td>
<td>ROM: 320KB, SRAM: 512KB</td>
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<tr>
<td>eXecute-In-Place</td>
<td>Secure Boot, AES engine, WLAN TKIP/AES</td>
<td>Secure Boot, AES engine, WLAN TKIP/AES</td>
<td>No</td>
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<td>Security</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<td>DMA</td>
<td>32x channel s</td>
<td>32x channel s</td>
<td>6x channel s</td>
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<td>Clock</td>
<td>On-chip RTC</td>
<td>RTC</td>
<td>RTC</td>
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<tr>
<td>Timers</td>
<td>2x GPT with LED PWM, Watch Dog</td>
<td>4x GPT with LED PWM, Watch Dog</td>
<td>2x GPT, Watch Dog</td>
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<tr>
<td>Digital Interfaces</td>
<td>I2C (2x), UART (3x), SSP/ICI (3x), I2S (3x), QSPI (with 32KB Flash-cache)</td>
<td>I2C (2x), UART (3x), SSP/ICI (3x), I2S (3x), QSPI (with 32KB Flash-cache), USB OTG</td>
<td>I2C (2x), UART (2x), SSP/ICI (2x), I2S/PCM (2x), SPI 16/16 Keyscan controller, Touch-button module, Trackball controller</td>
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<tr>
<td>Analog</td>
<td>ADC, DAC, Analog Comparator</td>
<td>ADC, DAC, Analog Comparator</td>
<td>ADC, DAC, Analog Comparator</td>
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<tr>
<td>GPIOs</td>
<td>Up to 33</td>
<td>Up to 50</td>
<td>Up to 32</td>
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<tr>
<td>Debug</td>
<td>JTAG/SWD</td>
<td>JTAG/SWD</td>
<td>JTAG/SWD</td>
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<tr>
<td>Package</td>
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<td>88-pin QFN 10x10 mm</td>
<td>48-pin QFN, 69-bump eWLP</td>
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# SATA Storage Controllers

## Storage Switching

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<tr>
<th>Part Numbers</th>
<th>Port Count</th>
<th>Bus Type</th>
<th>Tag and Native Command</th>
<th>Flash BIOS I/F</th>
<th>Power</th>
<th>Package Type</th>
<th>Ball Pitch</th>
<th>Evaluation Board Part Number</th>
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</thead>
<tbody>
<tr>
<td>88SE9345</td>
<td>4S</td>
<td>PCIe 2.0x4 to 4 SATA 6Gb/s Ports Without RAID</td>
<td>Yes</td>
<td>N/A</td>
<td>-5W</td>
<td>19mm x 19mm</td>
<td>481-TFBGA</td>
<td>No</td>
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<tr>
<td>88SE9230</td>
<td>4S</td>
<td>PCIe 2.0x2 to 4 SATA 6Gb/s Ports RAID Controller</td>
<td>FIS-Based</td>
<td>Flash BIOS I/F</td>
<td>N/A</td>
<td>1W</td>
<td>9mm x 9mm</td>
<td>76-QFN</td>
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<tr>
<td>88SE9235</td>
<td>4S</td>
<td>PCIe 2.0x2 to 4 SATA 6Gb/s Ports Without RAID</td>
<td>FIS-Based</td>
<td>Flash BIOS I/F</td>
<td>N/A</td>
<td>1W</td>
<td>9mm x 9mm</td>
<td>76-QFN</td>
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<tr>
<td>88SE9215</td>
<td>4S</td>
<td>PCIe 2.0x1 to 4 SATA 6Gb/s Ports Without RAID</td>
<td>FIS-Based</td>
<td>Flash BIOS I/F</td>
<td>N/A</td>
<td>1W</td>
<td>9mm x 9mm</td>
<td>76-QFN</td>
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<tr>
<td>88SE9170</td>
<td>2S</td>
<td>PCIe 2.0x1 to 2 SATA 6Gb/s Ports Without RAID</td>
<td>FIS-Based</td>
<td>Flash BIOS I/F</td>
<td>N/A</td>
<td>0.8W</td>
<td>7mm x 7mm</td>
<td>56-QFN</td>
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<tr>
<td>88SE9182</td>
<td>2S</td>
<td>PCIe 2.0x2 to 2 SATA 6Gb/s Ports Without RAID</td>
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<td>Flash BIOS I/F</td>
<td>N/A</td>
<td>0.8W</td>
<td>7mm x 7mm</td>
<td>56-QFN</td>
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<td>88SE9130</td>
<td>2S</td>
<td>PCIe 2.0x2 to 2 SATA 6Gb/s Ports RAID controller</td>
<td>FIS-Based</td>
<td>Flash BIOS I/F</td>
<td>HW RAID 0/1</td>
<td>1W</td>
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<td>88SE9128</td>
<td>2S 1P</td>
<td>PCIe 2.0x1 to 2 SATA 6Gb/s Ports (1 PATA Port) RAID controller</td>
<td>FIS-Based</td>
<td>Flash BIOS I/F</td>
<td>HW RAID 0/1</td>
<td>1W</td>
<td>9mm x 9mm</td>
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<td>88SE9120</td>
<td>2S 1P</td>
<td>PCIe 2.0x1 to 2 SATA 6Gb/s Ports (1 PATA Port) Without RAID</td>
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<td>88SE9125</td>
<td>2S</td>
<td>PCIe 2.0x1 to 2 SATA 6Gb/s Ports Without RAID</td>
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<td>N/A</td>
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<td>9mm x 9mm</td>
<td>76-QFN</td>
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## SATA Storage Controllers

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<tr>
<th>Part Numbers</th>
<th>Port Count</th>
<th>Bus Type</th>
<th>Queuing</th>
<th>Port Multiplier Support</th>
<th>Flash</th>
<th>Marvell Firmware</th>
<th>Power</th>
<th>Package Size</th>
<th>Package Type</th>
<th>I-Temp</th>
<th>Ball Pitch</th>
<th>Evaluation Board Part Number</th>
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<td>88SE1475</td>
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### SAS/SATA Storage Controllers

### Storage Switching

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<th>SAS Expander Support</th>
<th>Flash</th>
<th>Target Mode</th>
<th>Marvell RAID Software</th>
<th>Power</th>
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<th>Package Type</th>
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<th>Ball Pitch</th>
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<td>88SE1495</td>
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<td>PCIe 3.0x8 to 16 Ports 12Gb/s SAS or 6Gb/s SATA Without RAID</td>
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<td>88SE1485</td>
<td>8</td>
<td>PCIe 3.0x8 to 8 Ports 12Gb/s SAS or 6Gb/s SATA Without RAID</td>
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### SATA Port Multiplier/Multiplexer

#### Storage Switching

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<th>Evaluation Board Part Number</th>
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<td>SATA 6Gb/s</td>
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<td>88SM4140</td>
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**88SM9715**
1 Port to 5 Port 6Gb/s SATA Port Multiplier With Enclosure Management

**88SM9705**
1 Port to 5 Port 6Gb/s SATA Port Multiplier

**88SM9602**
1 Port to 2 Port 6Gb/s SATA Port

**88SM4140**
1:4 Serial ATA 3Gb/s Port Multiplier

### SATA Bridge

#### Storage Switching

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<th>Part Number</th>
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**88SA8052**
SATA/PATA Bridge
## 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
## Link Street® - Fast Ethernet Switches

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<tr>
<th>Model</th>
<th>Description</th>
<th>Port Configuration</th>
<th>Number of Ports</th>
<th>USXGMII / XFI</th>
<th>2.5G</th>
<th>Number of (R)XAUI</th>
<th>SGMII / 1GBase-X</th>
<th>GMII</th>
<th>RGMII</th>
<th>MII</th>
<th>RMII</th>
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<th>1000Base T</th>
<th>1000Base FX</th>
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## Link Street® - Fast Gigabit Ethernet Switches

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<th>Number of (R)XAUI</th>
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<th>GMII</th>
<th>RGMII</th>
<th>MII</th>
<th>RMII</th>
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<th>1000Base T</th>
<th>1000Base FX</th>
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<td>6-Port FE+GE Switch</td>
<td>4 FE PHYS GMII/RGMII/SGMII</td>
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### Link Street® - Fast Gigabit Ethernet Switches

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<th>Number of (R)XAUI</th>
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<th>GMII</th>
<th>RGMII</th>
<th>RMII</th>
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### Link Street® - Gigabit Ethernet Switches

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<th>USXGMII / XFI</th>
<th>2.5G</th>
<th>Number of (R)XAUI</th>
<th>SGMII/100Base T</th>
<th>GMII</th>
<th>RGMII</th>
<th>RMII</th>
<th>100Base T</th>
<th>10GBase T</th>
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## Link Street® - Gigabit Ethernet Switches

### SOHO Switching

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<th>USXGMII / XFI</th>
<th>2.5G</th>
<th>Number of (R)XAUI</th>
<th>SGMII / 100Base X</th>
<th>GMII</th>
<th>RMII</th>
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## Link Street® - Gigabit 10G Ethernet Switches

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<th>RMII</th>
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<th>100Base T</th>
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For additional product information, please contact a Marvell sales office or representative in your area.
## Prestera DX

### DX Series

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<th>Type</th>
<th>Evaluation Boards</th>
<th>Number of Ports</th>
<th>Package Size</th>
<th>Package Type</th>
<th>I-Temp</th>
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<tbody>
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<td>10-Port Gigabit Ethernet Packet Processor</td>
<td>98DX107-xx-LKJ</td>
<td>10 SGMII</td>
<td>Layer 2/3</td>
<td>DB-DX107-10G, RD-DX107-48F4G</td>
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<td>Prestera-DX160</td>
<td>16-Port Gigabit Ethernet Packet Processor</td>
<td>98DX160-xx</td>
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<td>Layer 2</td>
<td>RD-DX240-24G</td>
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<td>Prestera-DX167</td>
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<td>98DX167-xx</td>
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<td>Prestera-DX240</td>
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<td>98DX249-xx</td>
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### Prestera DX

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<td>License</td>
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### Alaska C Ethernet

#### Transceivers

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<th>Number of Ports</th>
<th>Optical (Line)</th>
<th>MACSec (LinkCrypt)</th>
<th>I-Temp</th>
<th>1-Step PTP (1588 v2)</th>
<th>2-Step PTP</th>
<th>SyncE</th>
<th>Supported Speeds</th>
<th>Host Interface</th>
<th>Optical Interface</th>
<th>Optical Module Types</th>
<th>Digital I/O</th>
<th>Analog Voltage</th>
<th>Reference Clock</th>
<th>JTAG</th>
<th>Package Type</th>
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### Alaska M Multi-Gigabit Ethernet

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<th>2-Step PTP</th>
<th>SyncE</th>
<th>Supported Speeds</th>
<th>Host Interface</th>
<th>Optical Interface</th>
<th>Optical Module Types</th>
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<th>Analog Voltage</th>
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<th>2-Step PTP</th>
<th>SyncE</th>
<th>Supported Speeds</th>
<th>Host Interface</th>
<th>Optical Interface</th>
<th>Optical Module Types</th>
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<th>Analog Voltage</th>
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# Alaska M Multi-Gigabit Ethernet

## Transceivers

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<th>2-Step PTP</th>
<th>SyncE</th>
<th>BASE-T Speeds</th>
<th>Heat Interface</th>
<th>Optical Module Types</th>
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<th>Energy Efficient</th>
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88E2010P Single EEE 10/100/1G/2.5G/5GBASE-T PHY with MACSec, PTP

## Alaska 1-Gigabit Ethernet

### Single Port Devices

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<th>2-Step PTP</th>
<th>SyncE</th>
<th>BASE-T Speeds</th>
<th>Heat Interface</th>
<th>Optical Module Types</th>
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Alaska 88E1518 EEE 10/100/1000BASE-T PHY with RGMII

Alaska 88E1514P EEE 10/100/1000BASE-T PHY with SGMII, Copper/ Fiber Automedia Detect and Low-Latency (1Step-PTP) 1588 v2 support

Alaska 88E1514 EEE 10/100/1000BASE-T PHY with SGMII, Copper/ Fiber Automedia Detect
## Alaska 1-Gigabit Ethernet

### Transceivers

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<tr>
<th>Model</th>
<th>Description</th>
<th>Ports</th>
<th>Optical (Line)</th>
<th>MACSec (LinkCrypt)</th>
<th>I-Temp</th>
<th>1-Step PTP (1588 v2)</th>
<th>2-Step PTP</th>
<th>SyncE</th>
<th>BASE-T (Cu)</th>
<th>Optical Interfaces</th>
<th>Mac Interfaces</th>
<th>Energy Efficient Ethernet</th>
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<th>Digital I/O</th>
<th>Analog Voltage</th>
<th>Internal Regulator</th>
<th>Extension Clock</th>
<th>Package Type</th>
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### Quad-Port Devices

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<th>Model</th>
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<th>Ports</th>
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<th>I-Temp</th>
<th>1-Step PTP (1588 v2)</th>
<th>2-Step PTP</th>
<th>SyncE</th>
<th>BASE-T (Cu)</th>
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<th>Mac Interfaces</th>
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<th>Core Voltage</th>
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<th>Analog Voltage</th>
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<th>Package Type</th>
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<td>15mm x 15mm 196-pin TFBGA</td>
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**For additional product information, please contact a Marvell sales office or representative in your area.**
### Alaska 1-Gigabit Ethernet

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<th>Analog Voltage</th>
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<th>Package Type</th>
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**Octal-Port-Devices**

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<th>MACSec (LinkCrypt)</th>
<th>I-Temp</th>
<th>1-Step PTP (1588 v2)</th>
<th>2-Step PTP</th>
<th>SyncE</th>
<th>BASE-T Src ports (Cu)</th>
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<th>MAC Interfaces</th>
<th>Energy Efficient Ethernet</th>
<th>Core Voltage</th>
<th>Digital I/O</th>
<th>Analog Voltage</th>
<th>Internal Regulator</th>
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### Alaska 1-Gigabit Ethernet

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<th>1-Step PTP (1588 v2)</th>
<th>2-Step PTP</th>
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### Alaska X 10-Gigabit Ethernet

#### Copper (Base-T) PHYs

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<td>XFI/SFI</td>
<td>1.2V/1.5V/1.8V/2.5V/3.3V</td>
<td>1.5V, 2.0V, 2.5V</td>
<td>50, 156.25 MHz</td>
<td>Yes</td>
<td>256-HFCBGA</td>
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<td>Alaska X 88X2242&lt;br&gt;40G/Quad-10G EDC PHY</td>
<td>4</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>40G, 1G</td>
<td>XLAUI, XFI, RXAUI, XFI, XLPPI</td>
<td>10GBASE-SR/ER/LR, 100GBASE-SW/EW/LW, 10GBASE-LRM, 1000BASE-X</td>
<td>1.5V, 2.0V, 2.5V</td>
<td>156.25, 155.52 MHz</td>
<td>Yes</td>
<td>324-FCBGA</td>
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<td>Alaska X 88X2222&lt;br&gt;Dual-10G EDC PHY with MacSec</td>
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<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>10G, 1G</td>
<td>XAUAI, RXAUI, XFI</td>
<td>SFI</td>
<td>10GBASE-SR/ER/LR, 10GBASE-SW/EW/LW, 10GBASE-LRM, 1000BASE-X</td>
<td>1.5V, 2.0V, 2.5V</td>
<td>156.25, 155.52 MHz</td>
<td>Yes</td>
<td>324-FCBGA</td>
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### Alaska X 10-Gigabit Ethernet

<table>
<thead>
<tr>
<th>Transceivers</th>
<th>Number of Ports</th>
<th>Optical (Line)</th>
<th>MACSec (LinkCrypt)</th>
<th>I-Temp</th>
<th>1-Step PTP (1588 v2)</th>
<th>2-Step PTP</th>
<th>SyncE</th>
<th>Supported Speeds</th>
<th>Host Interfaces</th>
<th>Optical Module Types</th>
<th>Core Voltage</th>
<th>Digital I/O</th>
<th>Analog Voltage</th>
<th>JTAG</th>
<th>Package Type</th>
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<tbody>
<tr>
<td><strong>Alaska X 88X2242M</strong> 40G/Quad-10G EDC PHY with MacSec</td>
<td>4</td>
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<td>Yes</td>
<td>No</td>
<td>No</td>
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<td>Yes</td>
<td>40G, 10G, 1G</td>
<td>XLAUI, XFI, XAUAI, XFI</td>
<td>SFI, XLPH</td>
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<td>Yes</td>
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<td><strong>Alaska X 88X2222M</strong> Dual-10G EDC PHY with MacSec</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>10G, 1G</td>
<td>XAUAI, RXAUI, XFI, XFI</td>
<td>SFI</td>
<td>Yes</td>
<td>1.0V</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td><strong>Alaska X 88X2242P</strong> 40G/Quad-10G EDC PHY with MacSec and PTP</td>
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<td>1.0V</td>
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<tr>
<td><strong>Alaska X 88X2222P</strong> Dual-10G EDC PHY with MacSec, and PTP</td>
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<td>10G, 1G</td>
<td>XAUAI, RXAUI, XFI, KR</td>
<td>SFI</td>
<td>Yes</td>
<td>1.0V</td>
<td>Yes</td>
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### Fast Ethernet (FE) PHY

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<tr>
<th>Transceivers</th>
<th>Number of Ports</th>
<th>Optical (Line)</th>
<th>MACSec (LinkCrypt)</th>
<th>I-Temp</th>
<th>1-Step PTP (1588 v2)</th>
<th>10GBASE-T</th>
<th>10GBASE-FX</th>
<th>Mac Interfaces</th>
<th>Core Voltage</th>
<th>Digital I/O</th>
<th>Analog Voltage</th>
<th>Virtual Cable tester</th>
<th>Programmable LED</th>
<th>RoHS 6/6, Green</th>
<th>JTAG</th>
<th>Package Type</th>
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</thead>
<tbody>
<tr>
<td><strong>88E3015</strong> 10/100BASE-T Fast Ethernet PHY</td>
<td>1</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>MII, RGMII</td>
<td>1.2V</td>
<td>2.5V/3.3V</td>
<td>2.5V</td>
<td>Yes</td>
<td>No</td>
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<td><strong>88E3016</strong> 10/100BASE-T Fast Ethernet PHY</td>
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<td>No</td>
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<td>No</td>
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<td>Yes</td>
<td>RGMII</td>
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<td>2.5V/3.3V</td>
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<td>Yes</td>
<td>64-GFN</td>
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# Fast Ethernet (FE) PHY

## Transceivers

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<tr>
<th>Model</th>
<th>Description</th>
<th>Number of Ports</th>
<th>Optical (Line)</th>
<th>MACSec (LinkCrypt)</th>
<th>Temp</th>
<th>1-Step PTP (1588 v2)</th>
<th>10/100BASE-T</th>
<th>100BASE-FX</th>
<th>Mac Interfaces</th>
<th>Core Voltage</th>
<th>Digital I/O</th>
<th>Analog Voltage</th>
<th>Internal Regulator</th>
<th>Virtual Cable Tester</th>
<th>Programmable LED</th>
<th>RoHS 6/6, Green</th>
<th>JTAG</th>
<th>Package Type</th>
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<tbody>
<tr>
<td>88E3018</td>
<td>10/100BASE-T Fast Ethernet PHY</td>
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<td>Yes</td>
<td>MII, RGMII</td>
<td>1.2V</td>
<td>2.5V/3.3V</td>
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<td>MII, RGMII</td>
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<td>2.5V/3.3V</td>
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<td>Yes</td>
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<td>32-QFN</td>
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## Octal-Port Devices

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<tr>
<th>Model</th>
<th>Description</th>
<th>Number of Ports</th>
<th>Optical (Line)</th>
<th>MACSec (LinkCrypt)</th>
<th>Temp</th>
<th>1-Step PTP (1588 v2)</th>
<th>10/100BASE-T</th>
<th>100BASE-FX</th>
<th>Mac Interfaces</th>
<th>Core Voltage</th>
<th>Digital I/O</th>
<th>Analog Voltage</th>
<th>Internal Regulator</th>
<th>Virtual Cable Tester</th>
<th>Programmable LED</th>
<th>RoHS 6/6, Green</th>
<th>JTAG</th>
<th>Package Type</th>
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<tbody>
<tr>
<td>88E3082</td>
<td>10/100BASE-T Octal PHY</td>
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<td>Yes</td>
<td>No</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>RMII, SMII, SSSMII, DDR-SSSMII</td>
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<td>2.5V/3.3V</td>
<td>2.5V</td>
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<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
<td>SMII, SSSMII, DDR-SSSMII</td>
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<td>2.5V/3.3V</td>
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## AVASTAR™

### Wireless

#### AVASTAR 8900 Family

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Wireless Technologies</th>
<th>Interface Support</th>
<th>Package Type</th>
<th>Package Size</th>
<th>Ball Pitch</th>
<th>Embedded CPU</th>
<th>Temp</th>
<th>Evaluation Boards</th>
<th>Process</th>
</tr>
</thead>
<tbody>
<tr>
<td>88W8997</td>
<td>802.11 a/b/g/n/ac 2x2 + BT 4.0, Dual-mode</td>
<td>PCIE, SDIO 3.0, USB 3.0/2.0, UART</td>
<td>QFN, CSP</td>
<td>9mm x 9mm &amp; Chip Scale</td>
<td>400um, 350um</td>
<td>Yes</td>
<td>-30 to +85°C</td>
<td>RD-88W-8997-PCIe/SD/USB</td>
<td>28nm</td>
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<td>88W8977</td>
<td>802.11 a/b/g/n/ac 1x1 + BT 4.0, Dual-mode</td>
<td>SDIO 3.0, UART</td>
<td>QFN, eWLP</td>
<td>8mm x 8mm &amp; Wafer-Level</td>
<td>400um</td>
<td>Yes</td>
<td>-30 to +85°C</td>
<td>RD-88W-8977e/Q</td>
<td>28nm</td>
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<tr>
<td>88W8964</td>
<td>802.11 a/b/g/n/ac 4x4</td>
<td>PCIE, UART</td>
<td>aQFN</td>
<td>11.8mm x 11mm</td>
<td>650um</td>
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<td>0 to +70°C</td>
<td>RD-88W-AP8964-DR2</td>
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#### AVASTAR 8800 Family

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<th>Wireless Technologies</th>
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<th>Package Size</th>
<th>Ball Pitch</th>
<th>Embedded CPU</th>
<th>Temp</th>
<th>Evaluation Boards</th>
<th>Process</th>
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<tr>
<td>88W8897</td>
<td>802.11 a/b/g/n/ac 2x2 + BT 4.0, Dual-mode</td>
<td>PCIE, SDIO 3.0, USB 2.0, UART</td>
<td>QFN, CSP</td>
<td>9.5mm x 11mm &amp; Chip Scale</td>
<td>400um</td>
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<td>RD-88W-8897PCIe/SD</td>
<td>40nm</td>
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<tr>
<td>88W8887</td>
<td>802.11a/b/g/n/ac 1x1 + BT 4.0, Dual-mode</td>
<td>SDIO 3.0, UART</td>
<td>QFN, CSP</td>
<td>9mm x 9mm &amp; Chip Scale</td>
<td>400um</td>
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<td>-30 to +85°C</td>
<td>RD-88W-8887-AGC/Q</td>
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<tr>
<td>88W8864</td>
<td>802.11 a/b/g/n/ac 4x4</td>
<td>PCIE, UART</td>
<td>aQFN</td>
<td>11.8mm x 11mm</td>
<td>800um</td>
<td>Yes</td>
<td>0 to +70°C</td>
<td>RD-88W-AP-8864DR2</td>
<td>40nm</td>
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<tr>
<td>88W8801</td>
<td>802.11a/b/g/n 1x1 Dual-mode</td>
<td>SDIO 3.0, USB 2.0</td>
<td>QFN</td>
<td>6mm x 6mm</td>
<td>400um</td>
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<td>-30 to +85°C</td>
<td>RD-88W-SD/USB 8801</td>
<td>40nm</td>
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</table>
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.

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