



NXP Semiconductors / Freescale

## P1020NSN2FFB

Part Number: P1020NSN2FFB  
 Manufacturer/Brand: NXP Semiconductors / Freescale  
 Product description: IC MPU Q OR IQ 800MHZ 689TEBGA  
 Datasheets:  
 1.P1020NSN2FFB.pdf  
 2.P1020NSN2FFB.pdf  
 3.P1020NSN2FFB.pdf  
 4.P1020NSN2FFB.pdf  
 5.P1020NSN2FFB.pdf  
 6.P1020NSN2FFB.pdf  
 RoHS Status: Lead free / RoHS Compliant  
 Ship From: Hong Kong  
 Shipment Way: DHL/Fedex/TNT/UPS/EMS

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Image may be representation. See specifications for product details.

### Specifications of P1020NSN2FFB

|                                  |  |
|----------------------------------|--|
| PART NUMBER                      | P1020NSN2FFB   |
| MANUFACTURER                     | NXP Semiconductors / Freescale   |
| DESCRIPTION                      | IC MPU Q OR IQ 800MHZ 689TEBGA   |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant   |
| DATA SHEET                       | <a href="#">1.P1020NSN2FFB.pdf</a><br><a href="#">2.P1020NSN2FFB.pdf</a><br><a href="#">3.P1020NSN2FFB.pdf</a><br><a href="#">4.P1020NSN2FFB.pdf</a><br><a href="#">5.P1020NSN2FFB.pdf</a><br><a href="#">6.P1020NSN2FFB.pdf</a> |
| VOLTAGE - I/O                    | 2.5V, 3.3V   |
| USB                              | USB 2.0 + PHY (2)  |
| SUPPLIER DEVICE PACKAGE          | 689-TEPBGA II (31x31)  |
| SPEED                            | 800MHz   |
| SERIES                           | QorIQ P1   |
| SECURITY FEATURES                | -  |
| SATA                             | -  |
| RAM CONTROLLERS                  | DDR2, DDR3   |
| PACKAGING                        | Tray   |
| PACKAGE / CASE                   | 689-BBGA Exposed Pad   |
| OTHER NAMES                      | 935314343557   |
| OPERATING TEMPERATURE            | 0°C ~ 125°C (TA)   |
| NUMBER OF CORES/BUS WIDTH        | 2 Core, 32-Bit   |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)  |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant   |
| GRAPHICS ACCELERATION            | No   |
| ETHERNET                         | 10/100/1000 Mbps (3)   |
| DISPLAY & INTERFACE CONTROLLERS  | -  |
| DETAILED DESCRIPTION             | PowerPC e500v2 Microprocessor IC QorIQ P1 2 Core, 32-Bit 800MHz 689-TEPBGA II (31x31)  |
| CORE PROCESSOR                   | PowerPC e500v2   |
| CO-PROCESSORS/DSP                | -  |
| BASE PART NUMBER                 | P1020  |
| ADDITIONAL INTERFACES            | DUART, I <sup>2</sup> C, MMC/SD, SPI   |

### Related Tags

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| Freescale Semiconductor - NXP P1020NSN2FFB  | NXP USA Inc. P1020NSN2FFB               |   |

### Related Products

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|--|--|
| <p><b>P1020NSE2HFB</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: IC MPU Q OR IQ 800MHZ 689TEBGA<br/>                 In stock: 150 pcs<br/> <a href="#">RFQ</a></p>   | <p><b>P1020NXN2DFB</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: IC MPU Q OR IQ 800MHZ 689TEBGA<br/>                 In stock: Out stock<br/> <a href="#">RFQ</a></p> |
| <p><b>P1020NSE2DFB</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: IC MPU Q OR IQ 800MHZ 689TEBGA<br/>                 In stock: 31 pcs<br/> <a href="#">RFQ</a></p>    | <p><b>P1020-WLAN</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: P1020-WLAN WIRESS LAN<br/>                 In stock: Out stock<br/> <a href="#">RFQ</a></p>            |
| <p><b>P1020NSN2HFB</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: IC MPU Q OR IQ 800MHZ 689TEBGA<br/>                 In stock: 46 pcs<br/> <a href="#">RFQ</a></p>    | <p><b>P1020NXE2FFB</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: IC MPU Q OR IQ 800MHZ 689TEBGA<br/>                 In stock: Out stock<br/> <a href="#">RFQ</a></p> |
| <p><b>P1020NXE2DFB</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: IC MPU Q OR IQ 800MHZ 689TEBGA<br/>                 In stock: Out stock<br/> <a href="#">RFQ</a></p> | <p><b>P1020NSN2DFB</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: IC MPU Q OR IQ 800MHZ 689TEBGA<br/>                 In stock: Out stock<br/> <a href="#">RFQ</a></p> |
| <p><b>P1020NSE2FFB</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: IC MPU Q OR IQ 800MHZ 689TEBGA<br/>                 In stock: Out stock<br/> <a href="#">RFQ</a></p> | <p><b>P1020NXE2HFB</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: IC MPU Q OR IQ 800MHZ 689TEBGA<br/>                 In stock: 81 pcs<br/> <a href="#">RFQ</a></p>    |
| <p><b>P1020NXN2FFB</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: IC MPU Q OR IQ 800MHZ 689TEBGA<br/>                 In stock: Out stock<br/> <a href="#">RFQ</a></p> | <p><b>P1020MBG-PC</b><br/>                 Manufacturers: NXP Semiconductors / Freescale<br/>                 Description: QORIQ MULTI-SERV BUS SOLUTION<br/>                 In stock: Out stock<br/> <a href="#">RFQ</a></p>   |

