



## P2040NSE1HLB

Part Number: **P2040NSE1HLB** Manufacturer/Brand: NXP Semiconductors / Freescale  
 Product Description: IC MPU Q OR IQ 800MHZ 780FCBGA Ship From: Hong Kong  
 RoHs Status: Lead free / RoHS Compliant Shipment Way: DHL/Fedex/TNT/UPS/EMS  
 Datasheets: [1.P2040NSE1HLB.pdf](#) [2.P2040NSE1HLB.pdf](#)  
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Image may be representation.  
See specifications for product details.

### Product details

<b>Part Number</b>	P2040NSE1HLB	<b>Manufacturer</b>	NXP Semiconductors / Freescale
<b>Description</b>	IC MPU Q OR IQ 800MHZ 780FCBGA	<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
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<b>Voltage - I/O</b>	1.0V, 1.35V, 1.5V, 1.8V, 2.5V, 3.3V	<b>USB</b>	USB 2.0 + PHY (2)
<b>Supplier Device Package</b>	780-FCPBGA (23x23)	<b>Speed</b>	800MHz
<b>Series</b>	QorIQ P2	<b>Security Features</b>	Boot Security, Cryptography, Random Number Generator, Secure Fusebox
<b>SATA</b>	SATA 3Gbps (2)	<b>RAM Controllers</b>	DDR3, DDR3L
<b>Packaging</b>	Tray	<b>Package / Case</b>	-
<b>Operating Temperature</b>	0°C ~ 105°C (TA)	<b>Number of Cores/Bus Width</b>	4 Core, 32-Bit
<b>Moisture Sensitivity Level (MSL)</b>	3 (168 Hours)	<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
<b>Graphics Acceleration</b>	No	<b>Ethernet</b>	10/100/1000 Mbps (5)
<b>Display &amp; Interface Controllers</b>	-	<b>Detailed Description</b>	PowerPC e500mc Microprocessor IC QorIQ P2 4 Core, 32-Bit 800MHz 780-FCPBGA (23x23)
<b>Core Processor</b>	PowerPC e500mc	<b>Co-Processors/DSP</b>	Security; SEC 4.2
<b>Base Part Number</b>	P2040	<b>Additional Interfaces</b>	DUART, I <sup>2</sup> C, MMC/SD, RapidIO, SPI

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