



NXP Semiconductors / Freescale

## MPC8378ECVRALGA

Part Number: MPC8378ECVRALGA  
 Manufacturer/Brand: NXP Semiconductors / Freescale  
 Product description: IC MPU MPC83XX 667MHZ 689TEBGA  
 Datasheets:  
 1.MPC8378ECVRALGA.pdf  
 2.MPC8378ECVRALGA.pdf  
 3.MPC8378ECVRALGA.pdf  
 4.MPC8378ECVRALGA.pdf  
 5.MPC8378ECVRALGA.pdf  
 6.MPC8378ECVRALGA.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 MPC8378ECVRALGA

PART NUMBER	MPC8378ECVRALGA
MANUFACTURER	NXP Semiconductors / Freescale
DESCRIPTION	IC MPU MPC83XX 667MHZ 689TEBGA
LEAD FREE STATUS / ROHS STATUS	Lead free / RoHS Compliant
DATA SHEET	<a href="#">1.MPC8378ECVRALGA.pdf</a> <a href="#">2.MPC8378ECVRALGA.pdf</a> <a href="#">3.MPC8378ECVRALGA.pdf</a> <a href="#">4.MPC8378ECVRALGA.pdf</a> <a href="#">5.MPC8378ECVRALGA.pdf</a> <a href="#">6.MPC8378ECVRALGA.pdf</a>
VOLTAGE - I/O	1.8V, 2.5V, 3.3V
USB	USB 2.0 + PHY (1)
SUPPLIER DEVICE PACKAGE	689-TEPBGA II (31x31)
SPEED	667MHz
SERIES	MPC83xx
SECURITY FEATURES	Cryptography, Random Number Generator
SATA	-
RAM CONTROLLERS	DDR, DDR2
PACKAGING	Tray
PACKAGE / CASE	689-BBGA Exposed Pad
OTHER NAMES	568-14263 935325617557 MPC8378ECVRALGA-ND
OPERATING TEMPERATURE	-40°C ~ 125°C (TA)
NUMBER OF CORES/BUS WIDTH	1 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 (2)
DISPLAY & INTERFACE CONTROLLERS	-
DETAILED DESCRIPTION	PowerPC e300c4s Microprocessor IC MPC83xx 1 Core, 32-Bit 667MHz 689-TEPBGA II (31x31)
CORE PROCESSOR	PowerPC e300c4s
CO-PROCESSORS/DSP	Security; SEC 3.0
BASE PART NUMBER	MPC8378
ADDITIONAL INTERFACES	DUART, I <sup>2</sup> C, MMC/SD, PCI, SPI

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