What is "**Embedded - Microcontrollers**"?

"**Embedded - Microcontrollers**" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "**Embedded - Microcontrollers**"

Details	
Product Status	Obsolete
Core Processor	HC11
Core Size	8-Bit
Speed	4MHz
Connectivity	SCI, SPI
Peripherals	POR, WDT
Number of I/O	38
Program Memory Size	20KB (20K x 8)
Program Memory Type	OTP
EEPROM Size	512 x 8
RAM Size	768 x 8
Voltage - Supply (Vcc/Vdd)	4.5V ~ 5.5V
Data Converters	A/D 8x8b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	52-LCC (J-Lead)
Supplier Device Package	52-PLCC (19.1x19.1)
Purchase URL	https://www.e-xfl.com/product-detail/nxp-semiconductors/mc68711e20mfne3r

MC68711E20MFNE3R Information

General information
Package information
Environmental and Compliance information
Manufacturing and Qualification information
Ordering information
Product/Process Change Notice (PCN)

General Information

Parameter	Value
Part Number	MC68711E20MFNE3R
Description	8BIT, 20K EPROM, 768RAM
Product Line	G7Q11E20
PTI	JDPE
Material Type	Tested Packaged Device
Life Cycle Description (code)	REMOVED FROM ACTIVE PORTFOLIO
Status	No Longer Manufactured

Package Information

Parameter	Value
Package Description	**PLCC 52**
JEDEC Pkg Description	PQCC-J52
Pin/Lead/Ball Count	52
Package Material	Plastic
Mounting Style	Surface Mount
Tape & Reel	Yes

Environmental and Compliance Information

Parameter	Value
Pb-Free	
RoHS Compliant	
Halogen Free	Yes
Material Composition Declaration (MCD)	**Download IPC-1752 Report**
RoHS Certificate of Analysis (CoA)	**Download RoHS CoA Report**
2nd Level Interconnect	**e3**
Moisture Sensitivity Level (MSL)	3
Floor Life	168 HOURS
Package Peak Temperature (°C)	250

Manufacturing and Qualification information

Parameter	Value
Micron Size (µm)	1.2
Application/Qualification Tier	COMMERCIAL, INDUSTRIAL, AUTOMOTIVE

Ordering Information

Parameter	Value
Export Control Classification Number (US)	EAR99
Harmonized Tariff (US) **Disclaimer**	8542.31.0000
Budgetary Price QTY 1000+ ($US)	-

Product/Process Change Notice (PCN)

Number	Type	Title	Issue Date	Effectivity Date
11462	Product Bulletin	**TSPG MCD ROHS COMPLIANT DEVICE MIGRATION**	14 Oct 2005	15 Oct 2005