



Freescale - MPC5566EVB - MPC55xxEVB Evaluation Kit

Product Overview:

The MPC55xxEVB Evaluation Kits include everything necessary to begin development with the MPC55xx family of microcontrollers. A comprehensive set of hardware and software development tool options are available including a free a flash programmer, initialization tools, and assembly level debug tool.



Kit Contents:

- Tools Include:
 - USB POWERPC NEXUS MULTILINK
- Compiler Only
 - CodeWarrior (Demo Software)
- Full IDE (Demo Software Only)
 - Green Hills
 - iSYSTEM (GNU other compilers)
 - P&E Micro (GNU compiler + free 64k debugger)
 - Lauterbach
 - Ashling (GNU compiler)
- Initialization Software
 - Treck Ethernet Stack (Demo Software)

Key Features:

- Breadboard area, access to all signals
- Nexus Connectors (MICTOR and 14-pin Berg). Footprint for Robust Connector
- 32-channel eTPU connector



- 1 CAN with PHY (Auto Temp Qualified)
- 1 LIN Transceiver with PHY
- 1 RS-232 Transceiver with PHY
- 8 LED
- 4 push buttons 1 with hardware debounce, 8 SPST switches
- 2 Potentiometers
- 1 Audio Speaker with amplifier
- UNI-3 Motor Interface connector plus sensor connector
- MPC5554EVB & MPC5567EVB 128Kx32 external SRAM
- MPC5553EVB & MPC5534EVB 256Kx16 external SRAM
- MPC5553EVB 10/100 Ethernet with PHY (National Semiconductor's PHY, DP83848YB, available in -40 to 125°C)
- MPC5567EVB Connectors and Transceivers for dual-channel FlexRay
- MPC5566EVB Has the same features as the MPC5553 EVB and the same schematics

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
MPC5566EVB	Freescale	1692121	51M5621
MPC5566EVB.	Freescale	1642334	NA

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
SPC4800	SPC	USB 2.0 Cable Assembly	4556604	83K3790
3PC4600	Technology		4550004	63K3790
SPC19944	SPC	Shielded Serial Cable	1702769	83K3689
3FC19944	Technology	Assembly	1702769	03/\3009
CWA-STANDARD-N	Freescale	Software, suite licence, c/w,	1750496	26R5712
CWA-STAINDARD-IN	rieescale	standard	1750496	20R5/12
USBMLCF	Freescale	USB ColdFire Multilink	1535884	01M6486
MDC5566M\/D422	Freescale	32-bit PowerPC	NA	09P4174
MPC5566MVR132	rieescale	Microcontrollers	INA	09P4174
SN74CBTLV3861DW	TI	Low-Voltage 10-Bit FET Bus	1741497	76C2993
3N/4CB1LV3001DVV	11	Switch	1741497	7002993
TPA4861DR	TI	Audio Power Amplifier IC	1535752	76C9815
TPA4861D	TI	Audio Power Amplifier IC	8456526	35K1280
LUNDOOCDZ	loto roil	RS-232 Transmitters/	0000444	24M2627
HIN202CBZ	Intersil	Receivers	9663444	Z4IVIZ0Z1



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HIN202ECBNZ	Intersil	RS-232 Transmitters/ Receiver	9663452	24M2629
SN74LV125APW	TI	Quad buffer/line driver 3-state	9592512	22H0425
MC33661D	Freescale	Local Area Network (LIN) Enhanced Physical Interface with Selectable Slew Rate	NA	09J5391
SN74CBT16211ADL	TI	Switch Logic IC	1740137	94B4081
DP83848IVV/NOPB	NS	Ethernet Transceiver	1654352	69K2089
LMC7221AIM/NOPB	NS	Tiny CMOS Comparator	1685315	41K2728
SN74AC86D	TI	Quadruple 2-Input Exclusive-OR Gates	1287469	36K3547
NC7SZ08P5	Fairchild	Tiny Logic UHS 2-Input AND Gate	1607787	34C1562
SPC4800	SPC Technology	USB 2.0 Cable Assembly	4556604	83K3790

Similar Products:

Part Number	Manufacturer	Description		Support Device	Farnell P/N	Newark P/N
MPC5534EVBE	Freescale	MPC55xx E Board	valuation	MPC5534, MPC5553, MPC5554	1692092	14M6281
MPC5534EVBE.	Freescale	MPC55xx E Board	valuation	MPC5534, MPC5553, MPC5554	NA	NA
MPC5554EVB	Freescale	MPC55xx E Board	valuation	MPC5534, MPC5553, MPC5554	1579884	NA
MPC5553EVB	Freescale	MPC55xx E Board	valuation	MPC5553	1692121	NA
MPC5567EVB	Freescale	MPC55xx E Board	valuation	MPC55XX	NA	01M6036

Document List:

Datasheets:

Part Number	Description	Size
MPC5566	MPC5566 Microcontroller Data Sheet	1.31MB



SN74CBTLV3861-Q1	Low-Voltage 10-Bit FET Bus Switch	123KB
IS61SF25618	256K x 16, 256K x 18 Synchronous Flow-through static RAM	108KB
TPA4861	TPA4861: 1-W Mono Audio Power Amplifier	623KB
HIN202	+5V Powered RS-232 Transmitters/Receivers with 0.1Microfarad External Capacitors	493KB
74LV125	74LV125 Quad buffer/line driver 3-state	906KB
MC33394	MC33394 Data Sheet	642KB
MC33661D	Local Area Network (LIN) Enhanced Physical Interface with Selectable Slew Rate	542KB
SN74CBT16211A	SN74CBT16211A Data Sheet	484KB
DP83848	DP83848VYB PHYTER® - Extended Temperature Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver	148KB
LMC7221	LMC7221 - Tiny CMOS Comparator with Rail-to-Rail Input and Open Drain Output	703KB
SN74AC86	Quadruple 2-Input Exclusive-OR Gates	709KB
NC7SZ08P5	TinyLogic UHS 2-Input AND Gate	536KB
SN54ACT573	SN54ACT573, SN74ACT573 OCTAL D-Type Transparent Latches <u>Datasheet</u>	524KB
SN74LVC2G125	SN74LVC2G125 Dual Bus Buffer Gate Datasheet	348KB

Application Notes:

File Name	Size
AN3787 Preventing Device Lockout via Censorship on MPC55xx and MPC563x Families	348KB
AN3215 : Interfacing MPC55xx Microcontrollers to the MFR4200 FlexRay Controller	608KB
AN3007 : BLDC Motor with Speed Closed Loop and DC-Bus Break Controller, driven by	2.2MB
eTPU on MPC5554	
AN2859SW_FPM Frequency Pulse Measurement (FPM) eTPU Function API	2KB
AN2858SW_PPA Pulse Period Accumulate (PPA) eTPU Function API	2KB

Hardware & Software:

File Name	Size
Evaluation: CodeWarrior for ColdFire Architectures	301MB
CodeWarrior for ColdFire v7.1.2 Patch	162MB
Evaluation: CodeWarrior for ColdFire Architectures	301.6MB
CodeWarrior for ColdFire v7.1.2 Patch	161.9MB
Processor Expert - CodeWarrior for MPC55XX	56MB
MPC5500 GAP TOOL	8.4MB
RAppID Version 2.2.0.7 IDE - Debug, Compile and Build Tools	
MPC55XX_EEPROM_EMULATION_DRIVER	4.45MB



MPC55XX FLASH DRIVER	4.9MB
FreeMASTER Communication Driver	4.3MB
MPC5553 RAppID Demo Rapid Application Initialization and Documentation Tool	55.3MB
MPC5554 Processor Expert Init Tool	18.7MB
MPC55xx SPE DSP Library 1	451KB
MPC55xx SPE DSP Library 2	2.5MB

