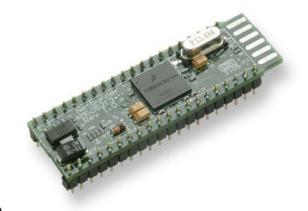


Mod5213 High Performance Embedded Processor Module



Features

- Complete solution for embedded applications
- 32-bit ColdFire 5213 Processor
- 66MHz Clock providing 63 MIPS of performance.
- 40-Pin DIP form factor 2.25" x 0.7"
- 256Kb Flash, 32Kb SRAM
- CAN 2.0B Controller
- 3 UARTs with DMA
- OSPI
- I2C
- 4 32-bit Timers with DMA
- 4 16-bit Timers with capture/compare/PWM options
- PWM generator configurable as 4 channel 16-bit, or 8 channel 8-bit
- 2 Periodic Interrupt Timers
- 4 Channel DMA Controller
- 8 12-bit Analog to Digital Inputs
- Up to 33 GPIO
- · PLL, System Watchdog
- Development kit available with RTOS, C/C++ Compiler, IDE, & Debugger
- MAC Module and hardware divide
- DC Input Voltage: 4V 7V
- Low power optimization
- Temp Range: -40 to +85 C

Introduction

The Mod5213 has a rich set of peripherals making it ideal for both communications and control applications. This small form factor module is targeted at the high performance extended temperature low power market. Available in a 40 pin DIP, the Mod5213 boasts 66MHz of performance on a 32-bit ColdFire platform. The Mod5213 development kit also includes all the tools necessary to complete your embedded design, including a world class IDE, Graphical Debugger, and Real Time Operating System.

Real-time high Performance Embedded Systems

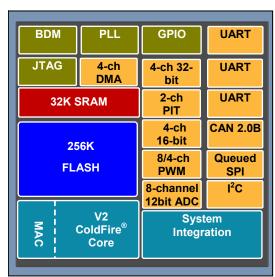
The Mod5213 is based on the Version 2 ColdFire core. Equipped with a full featured real-time operating system the Mod5213 is ideal for any deterministic application. Real time capability, extended temperature operation, and low power features allow the Mod5213 to operate in the harshest environment.

Small Form factor

The Mod5213 is ideal for rapid prototyping due to its industry standard 40 pin DIP form factor. Installed in a Socket or soldered straight to the board, the Mod5213 can fit into almost any space constrained enclosure.

Development Tools

The NetBurner Mod5213
Development Kit will get you up in running immediately. The kit includes Mod5213 hardware, developmet prototype boad, Integrated Development Environment, Real-Time Operating



System, C/C++ Compiler and Linker, Assembler, Debugger, Code Update and Deployment Tools.

Mod5213 Signal Description and Pinout					
Conn. Pin	Primary Function	Secondary Function	Tertiary Function	GPIO Port	Processor Pin No.
1	RSTI1			0	А3
2	URXD0			1	D1
3	UTXD0			1	D2
4	SDA	CANRX	URDX2	1	E2
5	SCL	CANTX	UTXD2	1	E1
6	IRQ1	SYNCA	PWM1	1	C6
7	IRQ4			1	C4
8	IRQ7			1	C5
9	VDDA			0	H8
10 11	VRH AN2			0 1	J8 G6
12	AN2 AN1			1	H6
13	ANO			1	J6
14	AN3			1	G7
15	AN7			i	H9
16	AN6			i	G9
17	AN5			1	G8
18	AN4			1	F9
19	VSSA/VRL			0	H7
20	VSS			0	J1
21	DTIN3	DTOUT3	PWM6	1	H3
22	DTIN2	DTOUT2	PWM4	1	J3
23	DTIN1	DTOUT1	PWM2	1	G4
24	DTIN0	DTOUT0	PWM0	1	H4
25	GPT3		PWM7	1	D8
26	GPT2		PWM5	1	D9
27	GPT1		PWM3	1	E9
28	GPT0		PWM1	1	F7
29	URXD1			1	B2
30 31	UTXD1 UCTS1	SYNCA	URXD2	1 1	A2 C3
32	URTS1	SYNCB	UTXD2	1	B1
33	QSPI CS2	STNCB	UIADZ	1	F2
34	QSPI_CS1			1	H2
35	QSPI_CS0	SDA	CTS1	i	H1
36	QSPI DOUT	CANTX	TXD1	i	G1
37	QSPI_DIN	CANRX	RXD1	i	F3
38	QSPI_CLK	SCL	RTS1	i 1	G2
39	VDD (3.3VDC)	-		Ó	E3
40 Unregulated Input Power, 4VDC - 7VDC			0		

Specifications

Processor

32-bit Freescale ColdFire 5213 running at 66MHz

Software Development

NetBurner Development Kit includes: Mod5213, Development Board, Real-Time OS, C/C++ Compiler, Integrated Development Environment (IDE), Graphical Debugger, configuration and deployment tools.

Connectors

Two standard single row 20-pin 0.1" headers

Physical Characteristics

Industry Standard 40-pin DIP Dimensions: 2.0" x 2.6"

Power Requirements

DC Input Voltage: 4V - 7V, or 3.3V Regulated

Operating current: 120mA

Environmental

Operating Temperature: -40 - +85°C

Ordering Information

Mod5213 Core Module: Mod5213-100 Development Kit: NNDK-MOD5213-KIT

www.netburner.com