Evaluation board SK-FM4-U120-9B560
S6SE2A58G0ASA0002

Dear customer,

thank you for choosing this Spansion MCU evaluation board! Detailed information and a related software package can be downloaded from our website

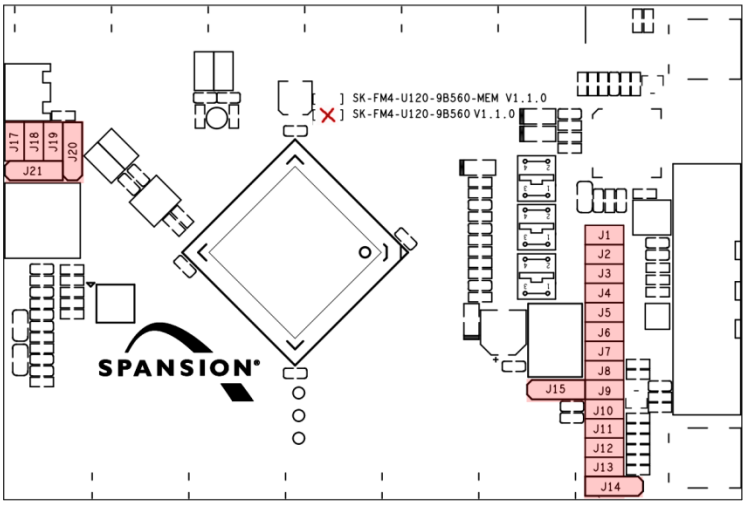
http://www.spansion.com/starterkit

Box content

- Evaluation board SK-FM4-U120-9B560 (S6SE2A58G0ASA0002)
- USB cable – Type A plug / Type Mini-B plug
- Short documentation (this paper)

Features

- MB9BF568R, ARM Cortex-M4 MCU, 160MHz, 1MB Flash, 128KB RAM
- On board JTAG/USB adapter
- USB host I/F, Type Mini-B receptacle
- SD-CARD socket
- All MCU pins accessible via pin headers
- User buttons, RGB LED, potentiometer



Jumper description

J1 (2 pin)	CMSIS-DAP Crystal (P22) (Do not change!)	Open: 4MHz, Closed: 48MHz
J2 (2 pin)	VBUS detection of CMSIS-DAP	Open: 3V3, Closed: 5V (only for SK-FM4-U120-9B560)
J3 (2 pin)	Enable/Disable CMSIS-DAP	Open: CMSIS-DAP is used for debugging, Closed: JTAG (CN2) can be used for debugging
J4 (2 pin)	Operation of MD1 (CMSIS-DAP) (Do not change!)	Open: Run-Mode, Closed: Test-Mode
J5 (2 pin)	Operation of MD0 (CMSIS-DAP)	Open: Run-Mode (CMSIS-DAP), Closed: Firmware update of CMSIS-DAP
J6-J9	Power Supply Source Please select just one power source! Do not set multiple jumper!	J9: USB Host powered (CN4) J8: JTAG powered (CN2) J7: CMSIS-DAP powered (CN3) J6: Powered by SK-FM4-U-PERIPHERAL (J16)
J10 (2 pin)	Use of SW3 NMI Jumper J10 needs to be opend for programming	Open: Button SW3 disconnected / Programming mode, Closed: Button SW3 (NMI) is connected
J11 (2 pin)	Use of USB D+	Open: USB is disconnected, Closed: USB is connected
J12 (2 pin)	Use of USB D-	Open: USB is disconnected, Closed: USB is connected
J13 (2 pin)	VBUS detection	Open: 3V3, Closed: 5V (only for SK-FM4-U120-9B560)
J14 (3 pin)	Use of USB VBUS detection, see also J10	1-2: VBUS is connected to INT03_2 (Run-Mode), 2-3: VBUS is connected to NMIX (Programming Mode)
J15 (3 pin)	MCU voltage selection SK-FM4-U120-9B560-MEM can be used with 3V3 only	1-2: MCU is powered from 3V3, 2-3: MCU is powered from 5V (not SK-FM4-U120-9B560-MEM)
J17 (2 pin)	Operation of MD1 (Do not change!)	Open: Run-Mode and Programming-Mode, Closed: Test-Mode
J18 (2 pin)	Operation of MD0	Open: Run-Mode, Closed: Programming-Mode
J19 (2 pin)	Use CMSIS-DAP Virtual COM port (SIN0_0)	Open: SIN0 is disconnected from CMSIS-DAP, Closed: CMSIS-DAP's virtual COM port is connected
J20 (3 pin)	Use CMSIS-DAP Virtual COM port (SOT0_0)	2-3: SOT0/P22 is used for USB programming, 1-2: CMSIS-DAP's virtual COM port is connected
J21 (3 pin)	Use of MD1/PE0, see also J17	1-2: MD1 (Programming-Mode), 2-3: PE0 (LED Blue)

Support

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