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SL-ADP-PCIe-M2 Datasheet and Pinout

Rev. 20210504112802

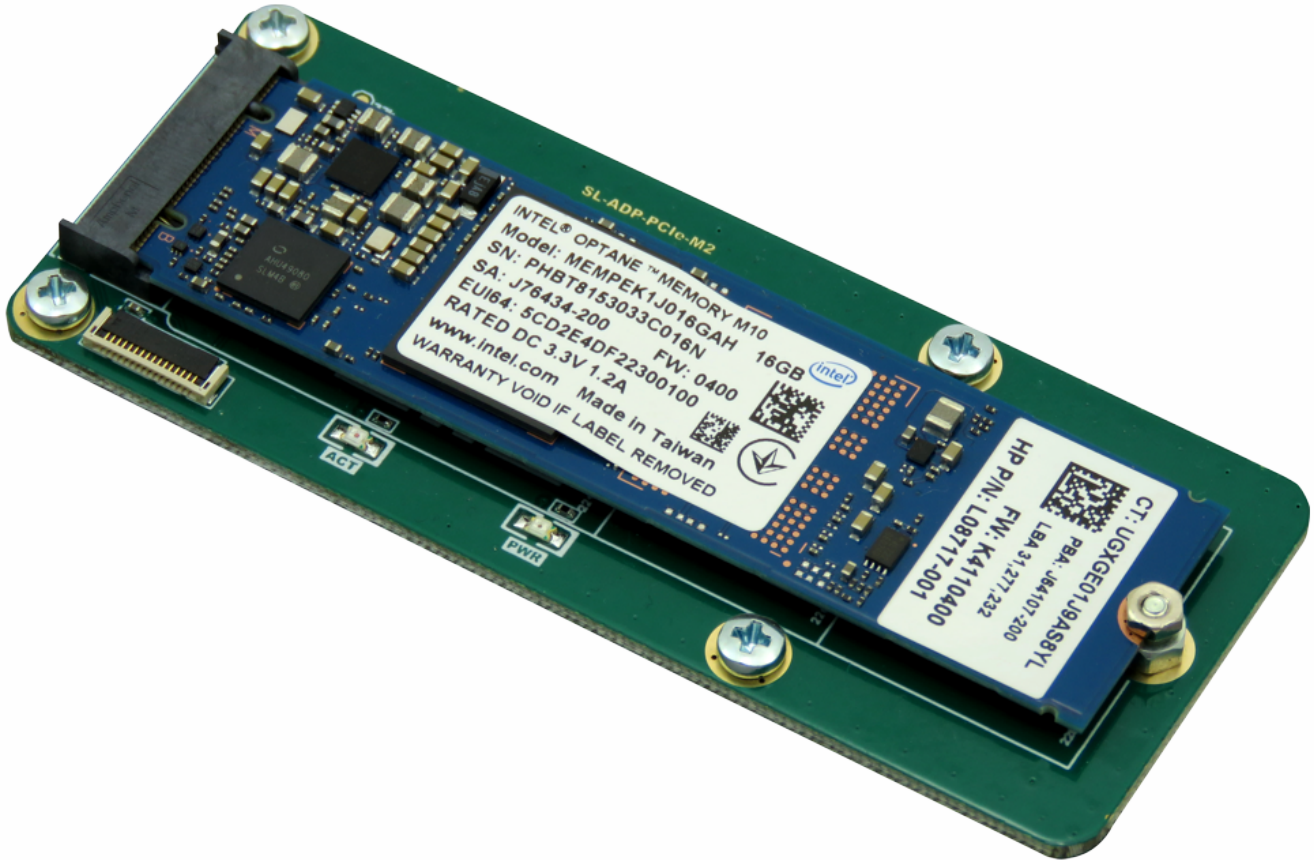
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SL-ADP-PCIe-M2 M.2 PCIe mass storage adapter Datasheet and Pinout

General description



SL-ADP-PCIe-M2 is adapter dedicated to using M.2 mass storage (SSD, single lane) in embedded systems based on i.MX8Mmini MPU. The SL-ADP-PCIe-M2 module is equipped with M.2 key M connector and is compatible with 2242, 2260 or 2280 modules.

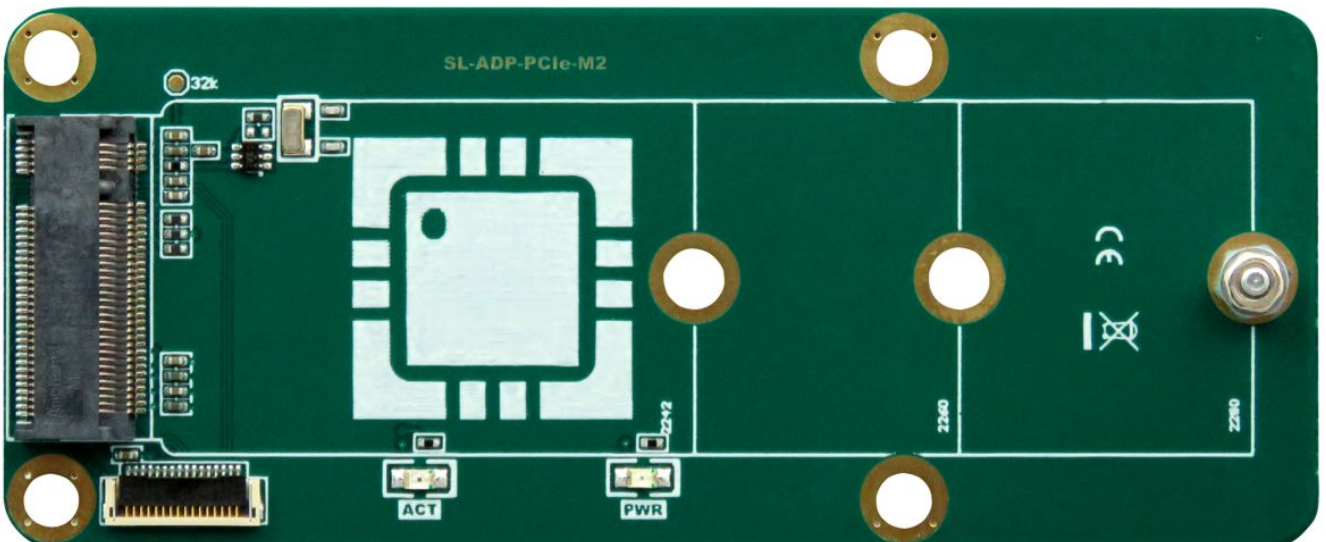
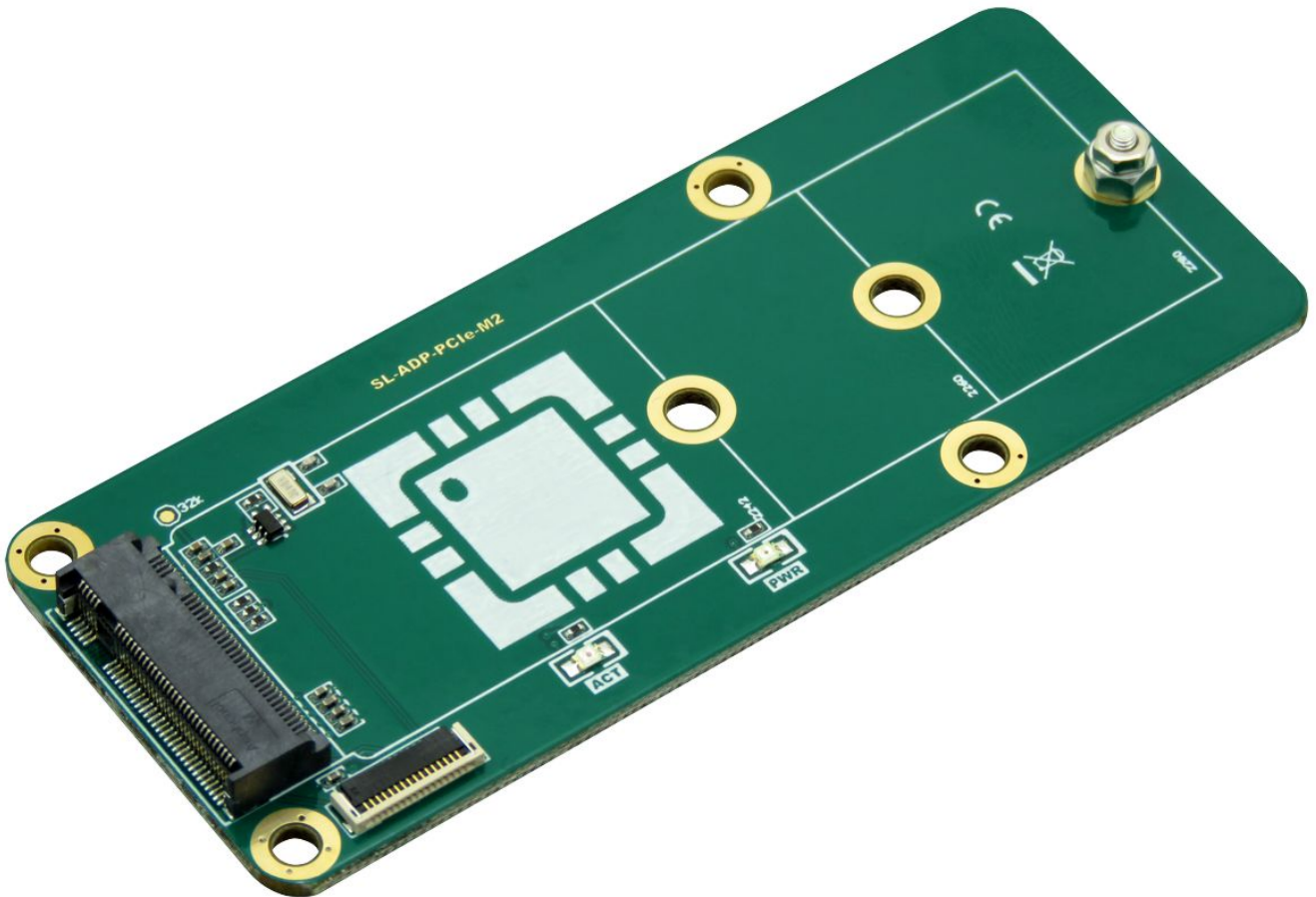
The SL-ADP-PCIe-M2 module is equipped with FPC16 connector - the same like in SoMLabs carrier board VisionCB-8M-STD.

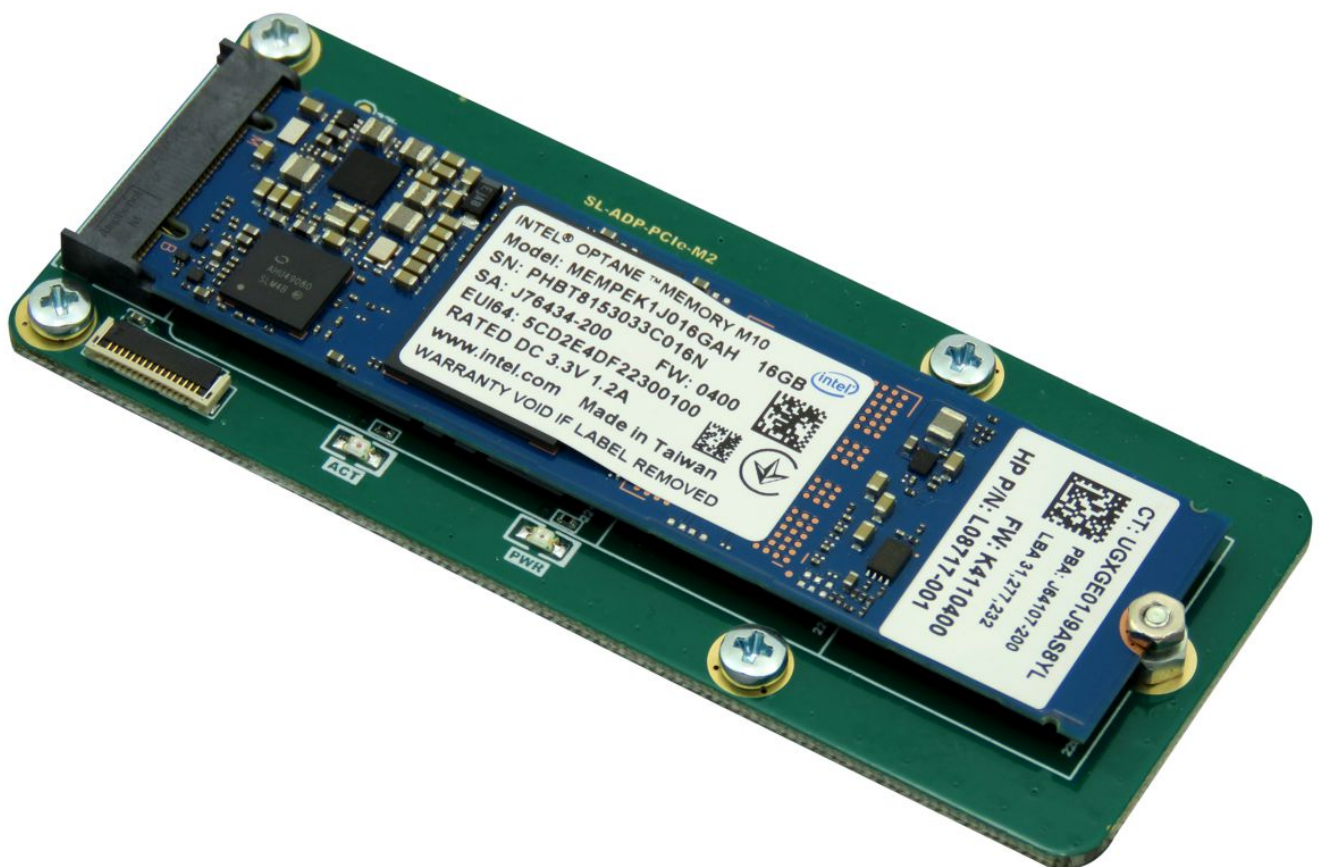
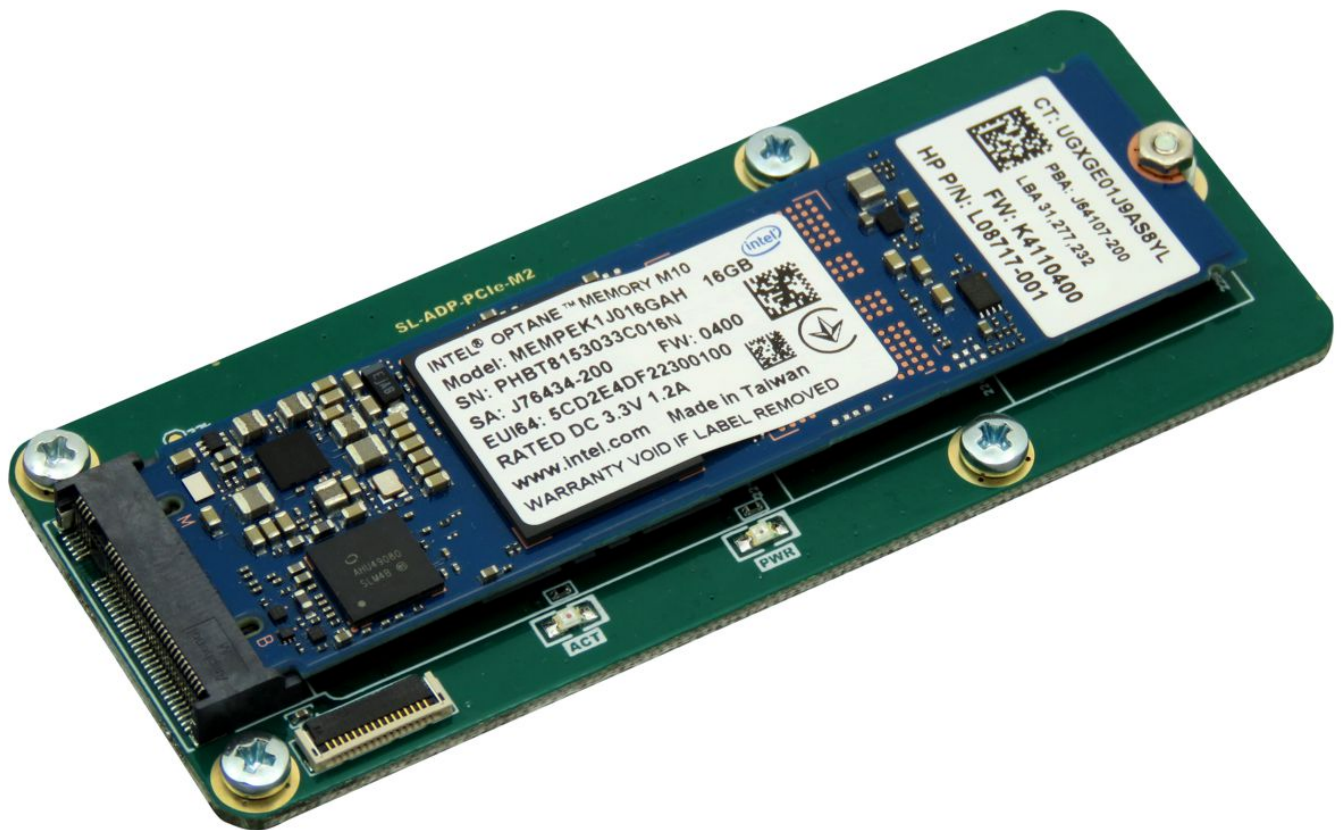
Features

- Equipped with M.2 key M SSD socket
- Single rail +3.3V power supply
- Single lane PCIe communication interface
- Operating temperature -30÷+85°C
- Fully compatible with SoMLabs carrier boards equipped with PCIe interface on FPC16 connector
- Built-in 32kHz clock source
- Built-in two LEDs
- Compatible with 2242, 2260 and 2280 modules
- Connection with carrier board using FPC16 cable

Pictures

Note: the SSD module shown in the picture is not included in the SL-ADP-PCIe-M2 kit!





Ordering info

SL-ADP-PCIe-M2 - FPC 16-pin flat cable (A-A) is included. The SSD module is not included in the SL-ADP-PCIe-M2 kit.

Operating ranges

Parameter	Value	Unit	Comment
Power Supply	3.3	V	Powered from carrier board
Current	15	mA	Maximum peak value (excluding SSD module)
Working temperature	-30...+85	°C	-

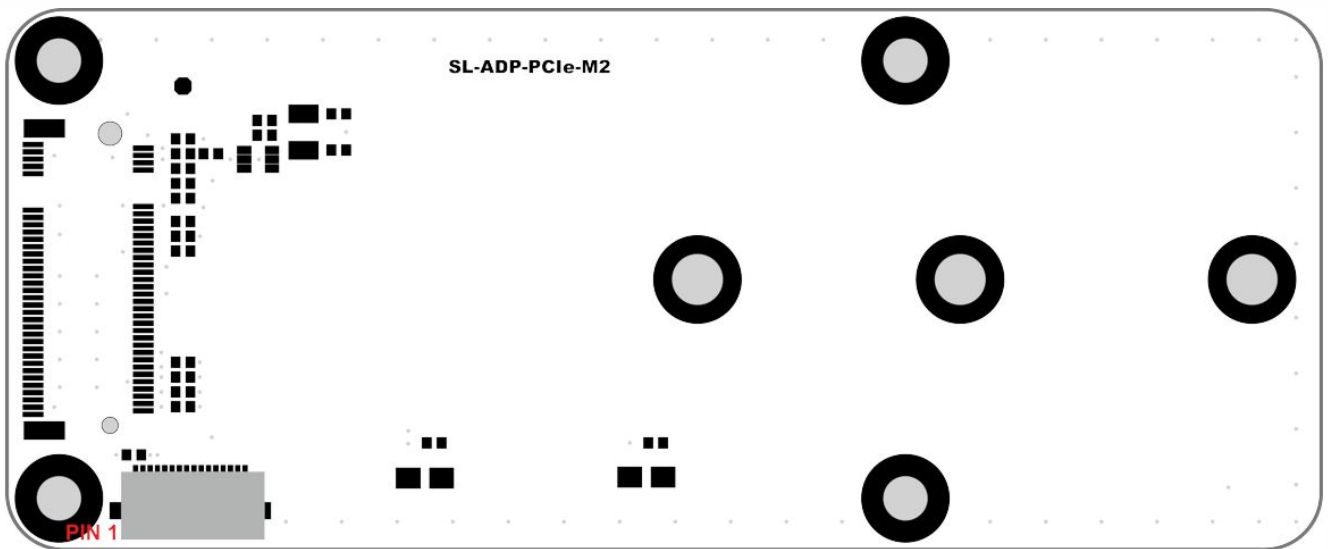
Electrical parameters

Signal name	Parameter	Value			Units
		Min.	Typ.	Max.	
+3.3V	Supply Voltage	3.2	3.3	3.35	V
I _{3.3V}	Supply Current (3.3V)	1	-	15	mA
f _{SUSCLK}	Suspend mode CLK frequency	-	32	-	kHz

Note:

1. Current consumption value without SSD module.

PCIe Pinout

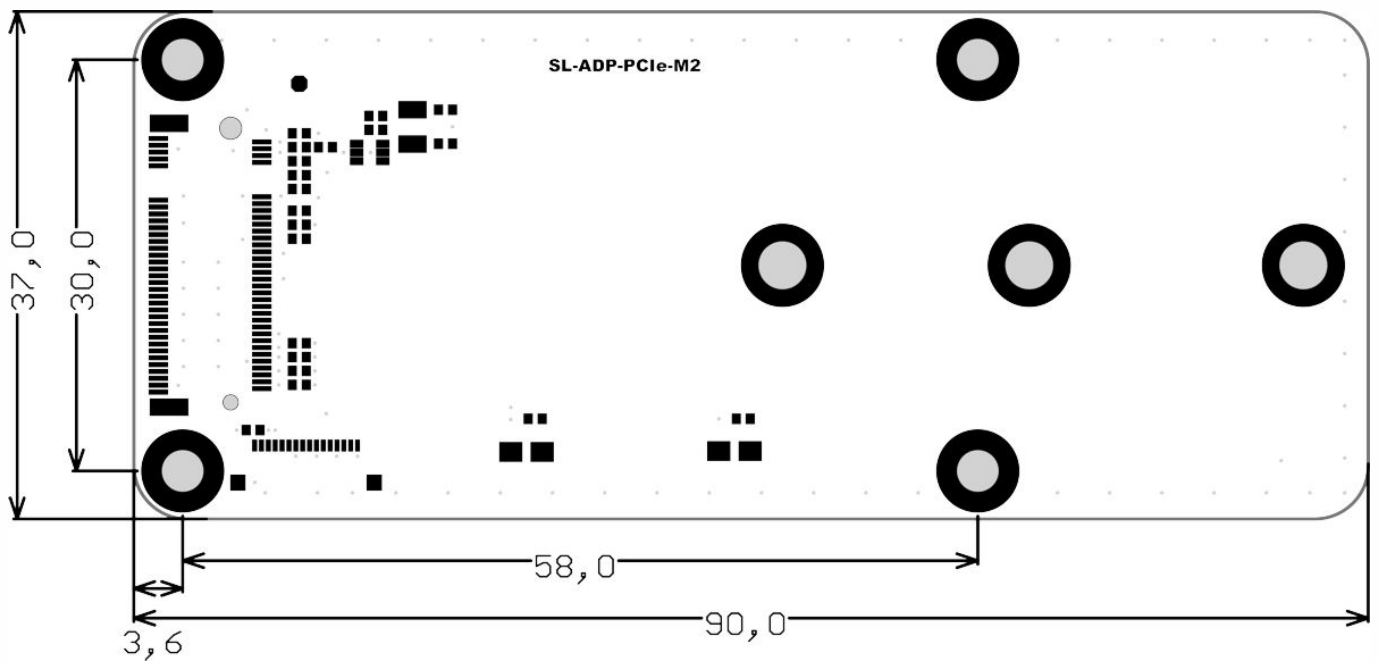


FPC16 connector pin	Function name	Description
1	-	-
2	-	-
3	+3.3V	Power supply
4	+3.3V	Power supply
5	-	-
6	-	-
7	GND	-
8	PCIe_CLK_n	Negative CLK data lane
9	PCIe_CLK_p	Positive CLK data lane
10	GND	-
11	PCIe_TXN_p	Positive TX data lane
12	PCIe_TXN_n	Negative TX data lane
13	GND	-
14	PCIe_RXN_p	Positive RX data lane
15	PCIe_RXN_n	Negative RX data lane
16	GND	-

Note:

1. nPERST, nCLKREQ and nPEWAKE pins are connected to +3.3V with 10k pull-up resistors.
2. 32kHz generator connected to SUSCLK input.
3. ACT LED is controlled by DAS/DSS/nLED1 pin.

Dimensions



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