

PD69104B1 and PD69104B1-F Errata

About this document

This document captures all the known erratas for PD69104B1 and PD69104B1-F device versions.

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1. Errata for PD69104B1 and PD69104B1-F Devices

This section lists the errata items and available solutions.

1.1 LED Behavior Due to Overload (OVL) or Short at Auto Mode

Description

The port LED stays **ON**, although ports are **OFF** due to disconnect. This scenario was detected at Auto Mode only. This behavior occurs:

- · Sometimes when two ports are connected.
- · Always when three or four ports are connected.

The sequence that causes the issue is:

- 1. OVL on all ports at the same time or Short on all ports at the same time.
- 2. Remove OVL or Short back to normal load on all ports at the same time, start-up, and then disconnect the ports in any order.
- 3. After disconnecting ports, some of the LEDs will stay ON although there is no load.

Workaround

Currently, there is no workaround for this issue.

1.2 LED Behavior Due to OVL or Short while Punishment at Auto Mode

Description

The port LED stays **ON**, although port is **OFF** due to disconnect. This scenario was detected at Auto Mode only. This behavior occurs always:

- OVL or Short on one port, then two seconds punishment timer starts and disables this port from starting up, which causes this issue.
- · During this punishment time, disconnect the port.
- · After disconnecting the port, the LED will stay ON; although there is no load.

Workaround

Currently, there is no workaround for this issue.

1.3 Host Communication

Description

 During UART communication, the PD69104B1 device writes zeros once the host starts to transmit the packet (starting from the first bit). The PD69104B1 device must wait until the host finishes the transmission and then starts to transmit another packet.

Workaround

The host must ignore any data containing 0 before receiving the header.

1.4 UART and I²C Communications

For UART communications, operation of registers 0x2-0x3, 0x4-0x5, 0x6-0x7, 0x8-0x9, and 0xA-0xB is reversed from operation published in the PD69104B1 - Generic Registers Map.

For I²C communication, operation is as described in the PD69104B1 - Generic Registers Map.

Registers Mapping and Description for UART Operation Notes:

R/W Access Key:

- COR Clear on Read. Register clears when read. Writing to these registers has no effect.
- R/W Read/Write. Register can be read or written.
- RO Read Only. Register can be read-only. Writing to these registers has no effect.
- SO Set Only. Writing 1 set the bit, Writing 0 bit is unchanged (Data read from these registers has no effect).
- / Bit (or Byte) default value depends on IC I/O configuration (pull-up or pull-down).

Table 1-1. Registers Mapping and Description for UART Operation

Address (HEX)	Register Name	Width	Bits	Detailed Description	General/Equation	Reset Value (HEX)	Read/ Write
2	PWREVN_COR	8	[0:3]	Ports 1 to 4 power status change (occurs when a port is turned ON or OFF).	Power Event register. Identical to PWREVN register (03h), except that reading this register clears both power	0	COR
	[4:7] Ports 1 to 4 power good change (when power good status of the port changes).			0	COR		
3	PWREVN	8	[0:3]	Ports 1 to 4 power status change (occurs when a port is turned ON or OFF).	Power Event register. Lower 4 bits indicate Power Enable events, which occur when a port is turned ON or OFF.	0	RO
			[4:7]	Ports 1 to 4 power good change (when power good status of the port changes).	Upper 4 bits are set when Power Good status of the applicable port(s) change. See STATPWR Register (10h) in the Register Map User Guide.	0	RO
4	DETEVN_COR	8	[0:3]	Ports 1 to 4 detection cycle completed.	Detect and Classification Event register. Identical to	0	COR
			[4:7]	Ports 1 to 4 classifications completed.	DETEVN register (05h), except that reading this register clears both DETEVN and DETEVN_COR registers.	0	COR
5	DETEVN	8	[0:3]	Ports 1 to 4 detection cycle completed.	Detection and Classification Event register. Lower 4	0	RO
			[4:7]	Ports 1 to 4 classifications completed.	bits indicate that port has completed a detection cycle. upper 4 bits indicate port has completed classifying the PD. Detection's/Classification's results are available in ports' STATP register (0 Ch to 0 Fh). See Register Map User Guide.		

continued							
Address (HEX)	Register Name	Width	Bits	Detailed Description	General/Equation	Reset Value (HEX)	Read/ Write
6	FLTEVN_COR	8	[0:3]	Ports 1 to 4 over current time-out (t _{CUT}).	Overload and Underload Time Out register. Identical	0	COR
			[4:7]	Ports 1 to 4 disconnect time-out (t _{DIS}).	to FLTEVN Register (07h) except that reading this register clears both FLTEVN and FLTEVN_COR registers.	0	COR
7	FLTEVN	8	[0:3]	Ports 1 to 4 over current time-out (t _{CUT}).	Overload and Underload Time Out register. Lower 4 bits indicate port is turned OFF because load current was above ICUT or ILIM lasted for longer than t _{CUT} . Upper 4 bits indicate when port is turned OFF because PD was disconnected.	0	RO
8	TSEVN_COR	8	[0:3]	Ports 1 to 4 over current during start-up time-out (t _{START}).	Overload during Start Up Time Out register. Identical to TSEVN register (09h)	0	COR
		[4:7] Ports 1 to 4 current register clears both TS		except that the reading this register clears both TSEVN and TSEVN_COR registers.	0	COR	
9	current during start-up time-out (t _{START}). A 4 bits indicate port i set bit indicates port i turned OFF becaus is turned OFF due unsuccessful start-up for period OFF because it was		Overload during Start Up Time Out register. Lower 4 bits indicate port is turned OFF because of an unsuccessful start-up. Upper 4 bits indicate port is turned OFF because it was in current limit for longer than t _{LIM} .	0	RO		
			[4:7]	Ports 1 to 4 current limit time-out (t _{LIM}). A set bit indicates port is turned OFF, since after start-up it was forced to limit the current for a period longer than t _{LIM} .			
A	SUPEVN_COR	8	[0:7]	Register 0Ah Clear On Read	Supply Event register. Identical to SUPEVN register (0Bh) except that reading of this register clears both SUPEVN and SUPEVN_COR registers.	0	COR

con	continued						
Address (HEX)	Register Name	Width	Bits	Detailed Description	General/Equation	Reset Value (HEX)	Read/ Write
В	SUPEVN	8	[0]	IC power is externally supplied from one of the ports – Microchip proprietary	Supply Event register. Bits in this register indicate problems with power supplies, temperature, or	0	RO
			[1]	Reserved	MOSFET failures.	1	RO
			[2]	Chip temperature is over the temperature alarm threshold (9Dh) – Microchip proprietary		0	RO
			[3]	Over Voltage Lock Out (OVLO) on main supply (V _{MAIN}) – Microchip proprietary		0	RO
			[4]	Under Voltage Lock Out (UVLO) on main supply (V _{MAIN}).		1	RO
		[5] [6]	[5]	One port or more were denied to power-up due to power management – Microchip proprietary		1	RO
			[6]	If this bit is set, one or more MOSFETs may have failed. To determine which ports may have bad FETs, read the HPSTAT registers (49h, 4Eh, 53h, and 58h).		0	RO
			This bit is set in case of a thermal shutdown. All ports are turned OFF. This bit can be cleared by reading SUPEVN_COR but TSD bit in WDOG register (42h) will remain set as long as temperature remains above the threshold value.		0	RO	

2. Revision History

Revision	Date	Description
A	10/2021	Initial Revision

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