

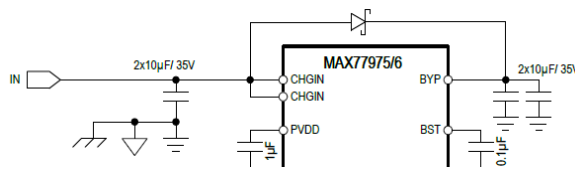
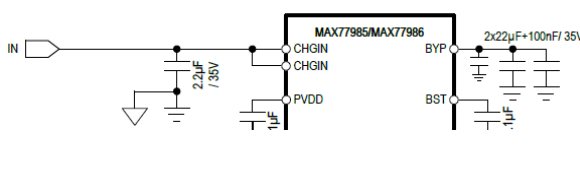
Migration Guide from MAX77975/MAX77976 to MAX77985/MAX77986

General Description

The MAX77985/MAX77986 is a high-performance high-input 3.5/5.5A fast charger with a Smart Power Selector™.

The MAX77985/MAX77986 is the next generation of the MAX77975/MAX77976. Hence, we encourage customers to migrate the solution from MAX77975 to MAX77985 and from MAX77976 to MAX77986.

Change List

No.	MAX77975/MAX77976	MAX77985/MAX77986																																																																																																																								
1.	MAX77975/MAX77976 needs an external protection to support a 15V hot plug. 	MAX77985/MAX77986 supports a 15V hot plug without an external protection. 																																																																																																																								
2.	The B2SOVRC feature is not available. CHG_CFG_05 (0x1B) Charger configuration 5 <table> <tr> <th>BIT</th><th>7</th><th>6</th><th>5</th><th>4</th><th>3</th><th>2</th><th>1</th><th>0</th></tr> <tr> <td>Field</td><td>Reserved</td><td>Reserved</td><td>Reserved</td><td>RECYCLE_EN</td><td colspan="4">Reserved[3:0]</td></tr> <tr> <td>Reset</td><td>0b0</td><td>0b0</td><td>0b0</td><td>0b0</td><td colspan="4">0x6</td></tr> <tr> <td>Access Type</td><td>Write, Read</td><td>Write, Read</td><td>Write, Read</td><td>Write, Read</td><td colspan="4">Write, Read</td></tr> </table> <table> <tr> <th>BITFIELD</th><th>BITS</th><th>DESCRIPTION</th><th>DECODE</th></tr> <tr> <td>Reserved</td><td>7</td><td>Reserved</td><td>Reserved</td></tr> <tr> <td>Reserved</td><td>6</td><td>Reserved</td><td>Reserved</td></tr> <tr> <td>Reserved</td><td>5</td><td>Reserved</td><td>Reserved</td></tr> <tr> <td>RECYCLE_EN</td><td>4</td><td>DISIBS Event Recycle Option</td><td>0b0: In case of DISIBS events, buck is disabled (OFF) and Q_{BATT} FET is opened. 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Smart Power Selector is a trademark of Maxim Integrated Products, Inc.

19-101738; Rev 0; 6/23

Migration Guide from MAX77975/MAX77976 to MAX77985/MAX77986

Change List (continued)

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3.	MINSYS = 3.60V (fixed).		MAX77985A/MAX77986A MINSYS is 3.4V, 3.5V, 3.6V, and 3.7V. MAX77985B/MAX77986B MINSYS is 3.0V, 3.1V, 3.5V, and 3.6V.																																																																																												
4.	CHG_CV_PRM (Charge Termination Voltage) is 4.15V to 4.46V (default 4.2V with 10mV steps). Battery Chemistry = Li-ion, Li-Polymer		MAX77985A/MAX77986A CHG_CV_PRM (Charge Termination Voltage) is 4.15V to 4.5375V (default 4.2V with 12.5mV steps). Battery Chemistry = Li-ion, Li-Polymer MAX77985B/MAX77986B CHG_CV_PRM (Charge Termination Voltage) is 3.50V to 4.275V (default 3.60V with 25mV steps). Battery Chemistry = LiFePO ₄																																																																																												
5.	QBEXT (Pin 30)—External Battery FET Control Output.		QBEXT/PGOOD (Pin 30)—Configurable as External Battery FET Control Output or PGOOD as unplug detection of 9V and 15V sources.																																																																																												
6.	N/A		Spread Spectrum Modulation to reduce EMI. SS_ENV [Bit7:6] in the register CHG_CNFG_00.																																																																																												
7.	Buck Inductor Current Limit, I _{HSILIM} . I _{HSILIM} for MAX77976 is 9.5A (typ) I _{HSILIM} for MAX77975 is 7A (typ)		Buck Inductor Current Limit, I _{HSILIM} . I _{HSILIM} for MAX77986 is 11.1A (typ) I _{HSILIM} for MAX77985 is 8.3A (typ)																																																																																												
8.	CHGIN Input Current Limit Setting Range, I _{INLIMIT} . I _{INLIMIT} = 0.1A to 3.2A.		CHGIN Input Current Limit Setting Range, I _{INLIMIT} . I _{INLIMIT} for MAX77986 = 0.1A to 5.5A I _{INLIMIT} for MAX77985 = 0.1A to 3.5A																																																																																												
9.	N/A		Higher V _{SYS} buck mode (Mode 0x6)																																																																																												
10.	Unplug TA during charging when V _{BATT} > V _{TERM} is not detected.		The bug is fixed.																																																																																												
11.	SYSUVLO/OVLO/TDIE may turn off permanently after the LPM register is cleared.		The bug is fixed.																																																																																												
12.	I _{CHGIN} , V _{CHGIN_UVLO_ACC} , and V _{CHGIN2SYS_TH} . Electrical Characteristics (V _{SYS} = 3.8V, V _{BATT} = 3.8V, V _{IO} = 1.8V, V _{CHGIN} = 5V, unless otherwise specified. Limits are production tested at T _A = +25°C. Limits over the operating temperature range and relevant supply voltage range are guaranteed by design and characterization.)		Tight tolerance of I _{CHGIN} , V _{CHGIN_UVLO_ACC} , and V _{CHGIN2SYS_TH} . Electrical Characteristics (V _{SYS} = 3.8V, V _{BATT} = 3.8V, V _{IO} = 1.8V, V _{CHGIN} = 5V, unless otherwise specified. Limits are production tested at T _A = +25°C. Limits over the operating temperature range and relevant supply voltage range are guaranteed by design and characterization.)																																																																																												
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13.	CHGIN Input Current Limit Accuracy [Min = -12%, Max = 0%]		CHGIN Input Current Limit Accuracy [Min = -10%, Max = 0~+10%]																																																																																												
<table><tr><td rowspan="4">CHGIN Input Current Limit Accuracy</td><td rowspan="4">I_{INLIMIT}</td><td>Charger enabled, 500mA input current limit setting</td><td>440</td><td>470</td><td>500</td><td rowspan="4">mA</td></tr><tr><td>Charger enabled, 1000mA input current limit setting</td><td>880</td><td>940</td><td>1000</td></tr><tr><td>Charger enabled, 1800mA input current limit setting</td><td>1584</td><td>1692</td><td>1800</td></tr><tr><td>Charger enabled, 3200mA input current limit setting</td><td>2816</td><td>3008</td><td>3200</td></tr></table>			CHGIN Input Current Limit Accuracy	I _{INLIMIT}	Charger enabled, 500mA input current limit setting	440	470	500	mA	Charger enabled, 1000mA input current limit setting	880	940	1000	Charger enabled, 1800mA input current limit setting	1584	1692	1800	Charger enabled, 3200mA input current limit setting	2816	3008	3200	<table><tr><td rowspan="8">CHGIN Input Current Limit Accuracy</td><td rowspan="8">I_{INLIMIT}</td><td>Charger enabled, CHGIN = 5V ±5%, input current limit setting ≤ 2.7A, T_A = -5°C to +85°C</td><td>-10</td><td>0</td><td rowspan="8">%</td></tr><tr><td>Charger enabled, CHGIN = 5V ±5%, input current limit setting > 2.7A, T_A = -5°C to +85°C</td><td>-10</td><td>+5</td></tr><tr><td>Charger enabled, CHGIN = 9V ±5%, input current limit setting ≤ 1.5A, T_A = -5°C to +85°C</td><td>-10</td><td>0</td></tr><tr><td>Charger enabled, CHGIN = 9V ±5%, input current limit setting > 1.5A, T_A = -5°C to +85°C</td><td>-10</td><td>+5</td></tr><tr><td>Charger enabled, CHGIN = 12V ±5%, input current limit setting ≤ 1A, T_A = -5°C to +85°C</td><td>-10</td><td>+5</td></tr><tr><td>Charger enabled, CHGIN = 12V ±5%, input current limit setting > 1A, T_A = -5°C to +85°C</td><td>-10</td><td>+10</td></tr><tr><td>Charger enabled, CHGIN = 15V ±5%, input current limit setting ≤ 0.5A, T_A = -5°C to +85°C</td><td>-10</td><td>+5</td></tr><tr><td>Charger enabled, CHGIN = 15V ±5%, input current limit setting > 0.5A, T_A = -5°C to +85°C</td><td>-10</td><td>+10</td></tr></table>			CHGIN Input Current Limit Accuracy	I _{INLIMIT}	Charger enabled, CHGIN = 5V ±5%, input current limit setting ≤ 2.7A, T _A = -5°C to +85°C	-10	0	%	Charger enabled, CHGIN = 5V ±5%, input current limit setting > 2.7A, T _A = -5°C to +85°C	-10	+5	Charger enabled, CHGIN = 9V ±5%, input current limit setting ≤ 1.5A, T _A = -5°C to +85°C	-10	0	Charger enabled, CHGIN = 9V ±5%, input current limit setting > 1.5A, T _A = -5°C to +85°C	-10	+5	Charger enabled, CHGIN = 12V ±5%, input current limit setting ≤ 1A, T _A = -5°C to +85°C	-10	+5	Charger enabled, CHGIN = 12V ±5%, input current limit setting > 1A, T _A = -5°C to +85°C	-10	+10	Charger enabled, CHGIN = 15V ±5%, input current limit setting ≤ 0.5A, T _A = -5°C to +85°C	-10	+5	Charger enabled, CHGIN = 15V ±5%, input current limit setting > 0.5A, T _A = -5°C to +85°C	-10	+10																																												
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Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	6/23	Initial release	—

