

INTERNATIONAL STANDARD

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**Universal serial bus interfaces for data and power –
Part 1-2: Common components – USB Power Delivery specification**

**Interfaces de bus universel en série pour les données et l'alimentation
électrique –**

**Partie 1-2: Composants communs – Spécification de l'alimentation électrique
par port USB**



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**UNIVERSAL SERIAL BUS INTERFACES FOR DATA AND POWER –
Part 1-2: Common components – USB Power Delivery specification**

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The text of this standard was prepared by the USB Implementers Forum (USB-IF). The structure and editorial rules used in this publication reflect the practice of the organization which submitted it.

The text of this International Standard is based on the following documents:

Draft	Report on voting
100/3716/CDV	100/3763/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

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This standard is the USB-IF publication Universal Serial Bus Power Delivery Specification Revision 3.1, Version 1.1.

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Geoff Shew	Microsoft Corporation	Akshay Nayaknur	Power Integrations
Jayson Kastens	Microsoft Corporation	Amruta Patra	Power Integrations
Kai Inha	Microsoft Corporation	Rahul Joshi	Power Integrations
Marwan Kadado	Microsoft Corporation	Ricardo Pregiteer	Power Integrations
Michelle Bergeron	Microsoft Corporation	Shruti Anand	Power Integrations
Nathan Sherman	Microsoft Corporation	Amit gupta	Qualcomm, Inc
Rahul Ramadas	Microsoft Corporation	George Paparrizos	Qualcomm, Inc
Randy Aull	Microsoft Corporation	Giovanni Garcea	Qualcomm, Inc
Shiu Ng	Microsoft Corporation	Jack Pham	Qualcomm, Inc
Tieyong Yin	Microsoft Corporation	James Goel	Qualcomm, Inc
Timo Toivola	Microsoft Corporation	Joshua Warner	Qualcomm, Inc
Toby Nixon	Microsoft Corporation	Karyn Vuong	Qualcomm, Inc
Vahid Vassey	Microsoft Corporation	Lalan Mishra	Qualcomm, Inc
Vivek Gupta	Microsoft Corporation	Vamsi Samavedam	Qualcomm, Inc
Yang You	Microsoft Corporation	Vatsal Patel	Qualcomm, Inc
Adib Al Abaji	Molex LLC	Chris Sporck	Qualcomm, Inc.
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Bo Zhou	Monolithic Power Systems Inc.	Narendra Mehta	Qualcomm, Inc.
Christian Sporck	Monolithic Power Systems Inc.	Terry Remple	Qualcomm, Inc.
Di Han	Monolithic Power Systems Inc.	Will Kun	Qualcomm, Inc.
Zhihong Yu	Monolithic Power Systems Inc.	Yoram Rimoni	Qualcomm, Inc.
Dan Wagner	Motorola Mobility Inc.	Fan-Hau Hsu	Realtek Semiconductor Corp.
Ben Crowe	MQP Electronics Ltd.	Tsung-Peng Chuang	Realtek Semiconductor Corp.
Pat Crowe	MQP Electronics Ltd.	Atsushi Mitamura	Renesas Electronics Corp.
Sten Carlsen	MQP Electronics Ltd.	Bob Dunstan	Renesas Electronics Corp.
Kenji Oguma	NEC Corporation	Brian Allen	Renesas Electronics Corp.
Frank Borngräber	Nokia Corporation	Dan Aoki	Renesas Electronics Corp.
Kai Inha	Nokia Corporation	Hajime Nozaki	Renesas Electronics Corp.
Pekka Leinonen	Nokia Corporation	John Carpenter	Renesas Electronics Corp.
Richard Petrie	Nokia Corporation	Kiichi Muto	Renesas Electronics Corp.
Sten Carlsen	Nokia Corporation	Masami Katagiri	Renesas Electronics Corp.
Abhijeet Kulkarni	NXP Semiconductors	Nobuo Furuya	Renesas Electronics Corp.
Ahmad Yazdi	NXP Semiconductors		

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Emmanuel Lemay	Seagate Technology LLC	Pascal Legrand	STMicroelectronics
John Hein	Seagate Technology LLC	Patrizia Milazzo	STMicroelectronics
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Tony Priborsky	Seagate Technology LLC	Zongyao Wen	Synopsys, Inc.
Chin Chang	Semtech Corporation	Joan Marrinan	Tektronix
Tom Farkas	Semtech Corporation	Kimberley McKay	Teledyne-LeCroy
Ning Dai	Silergy Corp.	Matthew Dunn	Teledyne-LeCroy
Wanfeng Zhang	Silergy Corp.	Tony Minchell	Teledyne-LeCroy
Kafai Leung	Silicon Laboratories, Inc.	Anand Dabak	Texas Instruments
Kok Hong Soh	Silicon Laboratories, Inc.	Bill Waters	Texas Instruments
Sorin Badiu	Silicon Laboratories, Inc.	Bing Lu	Texas Instruments
Steven Ghang	Silicon Laboratories, Inc.	Deric Waters	Texas Instruments
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Kaustubh Kumar	SiliConch Systems Private Limited	Jean Picard	Texas Instruments
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Balasubramanian	SiliConch Systems Private Limited	Mike Campbell	Texas Instruments
Rakesh Polasa	SiliConch Systems Private Limited	Scott Jackson	Texas Instruments
Satish Anand	SiliConch Systems Private Limited	Shafiuddin	Texas Instruments
Verkila	SiliConch Systems Private Limited	Mohammed	Texas Instruments
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Richard Wahler	SMSC	Chris Yokum	Total Phase
		Eric Wall	UL LLC

Jason Smith	UL LLC
Steven Chen	Unigraf OY
Topi Lampiranta	Unigraf OY
Brad Cox	Ventev Mobile
Colin Vose	Ventev Mobile
Dydron Lin	VIA Technologies, Inc.
Fong-Jim Wang	VIA Technologies, Inc.
Jay Tseng	VIA Technologies, Inc.
Rex Chang	VIA Technologies, Inc.
Terrance Shih	VIA Technologies, Inc.
Ho Wen Tsai	Weltrend Semiconductor
Hung Chiang	Weltrend Semiconductor
Jeng Cheng Liu	Weltrend Semiconductor
Priscilla Lee	Weltrend Semiconductor
Wayne Lo	Weltrend Semiconductor
Charles Neumann	Western Digital Technologies, Inc.
Curtis Stevens	Western Digital Technologies, Inc.
John Maroney	Western Digital Technologies, Inc.
Joe O'Brien	Wilder Technologies
Will Miller	Wilder Technologies
Juejia Zhou	Xiaomi Communications Co., Ltd.
Xiaoxing Yang	Xiaomi Communications Co., Ltd.

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