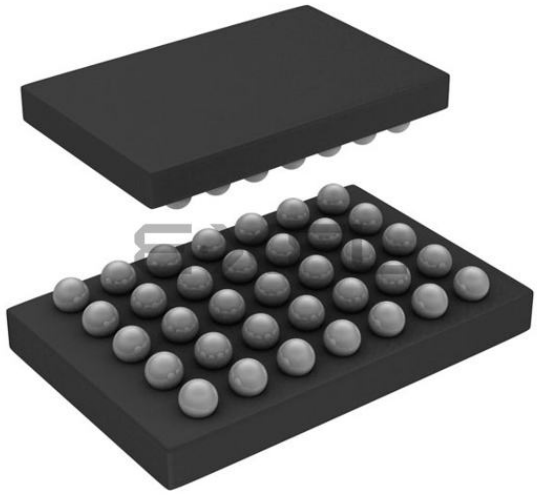

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Details	
Product Status	Obsolete
Applications	USB Type C
Core Processor	ARM® Cortex®-M0
Program Memory Type	FLASH (32KB)
Controller Series	-
RAM Size	4K x 8
Interface	I²C, SPI, UART/USART, USB
Number of I/O	31
Voltage - Supply	1.71V ~ 5.5V
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	35-UFBGA, WLCSP
Supplier Device Package	35-WLCSP (3.23x2.10)
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/cypd1104-35fnxit

Contents

Pin Definitions

Table 1 provides the pin definition for 35-Ball WLCSP for the Cable/EMCA application. Refer to Table 23 for part numbers to package mapping.

Table 1. Pin Definitions for 35-ball WLCSP for EMCA Cable Application

Functional Pin Name	CYPD1103-35FNXIT Balls	Type	Description
CC1_RX	C4	I	CC1 control 0: TX enabled z: RX sense
CC1_TX	D7	O	Configuration Channel 1
SWD_IO	D1	I/O	SWD I/O
SWD_CLK	C1	I	SWD clock
I2C_SCL	B1	I/O	I^2C clock signal
I2C_SDA	B2	I/O	I^2C data signal
XRES	B6	I	Reset
VCCD	A7	POWER	Regulated digital supply output. Connect a 1 to 1.6-µF capacitor. No external source should be connected
VDDD	C7	POWER	Power supply for both analog and digital sections
VSSA	B7	GND	Analog ground
CC_VREF	C5	I	Data reference signal for CC lines
TX_U	B3	O	Signals for internal use only. The TX_U output signal should be connected to the TX_M signal
TX_M	B5	I	–
TX_REF_IN	D3	I	Reference signal for internal use. Connect to TX_REF output via a 2.4K 1% resistor
TX_GND	A3	I	Connect to GND via 2K 1% resistor
TX_REF_OUT	D4	O	Reference signal generated by connecting internal current source to two 1K external resistors
RA_DISCONNECT	E4	O	Optional control signal to remove RA after assertion of VCONN 0: RA disconnected 1: RA connected
VCONN_DET	C6	I	Local VCONN detection signal 0: VCONN is not locally applied 1: VCONN is locally applied
CC1_LPREF	A5	I	Reference signal for internal use. Connect to the output of resistor divider from VDDD.
RA_FAR_DISCONNECT	E5	O	Optional control signal to remove RA after assertion of VCONN (NC for 2 chip/cable) 0: RA disconnected 1: RA connected
BYPASS	D5	I	Bypass capacitor for internal analog circuits
CC1_LPRX	C3	I	Configuration channel 1 RX signal for Low Power States
GPIO	A1, A2, A4, A6, B4, C2, D2, D6, E1, E2, E3, E6, E7	–	General-purpose I/Os

Table 2 provides the pin definitions for 40-pin QFN and 35-ball WLCSP for the notebook, tablet, smartphone, and monitor applications. Refer to Table 23 on page 23 for part numbers to package mapping.

Table 2. Pin Definitions for 40-QFN and 35-ball WLCSP for Notebook, Tablet, SmartPhone and Monitor Applications

Functional Pins	CYPD 1122-40LQXI Pins[8]	CYPD 1121-40LQXI Pins[9]	CYPD 1131-35FNXIT Balls[10]	Type	Description
MUXSEL_1	1	1	D5	O	External Data Mux Select signal 1
MUXSEL_2	2	2	D6	O	External Data Mux Select signal 2
CC1_CTRL	3	3	D3	I/O	CC1 control 0: TX enabled z: RX sense
CC2_CTRL	4	4	E4	I/O	CC2 control 0: TX enabled z: RX sense
MUXSEL_3	5	5	E5	O	External Data Mux Select signal 3
MUXSEL_4	6	6	E6	O	External Data Mux Select signal 4
CS_P	7	7	E3	I	Current Sensing Plus input
CS_M	8	8	E2	I	Current Sensing Minus input I
VSS	9	9	–	GND	Ground
CC1	10	10	-	I/O	Configuration Channel 1
CC_SEL_REF_1	11	11	E1	O	CC Reference Select signal
SWD_IO	12	12	D1	I/O	SWD IO
SWD_CLK	13	13	C1	I	SWD Clock
HOTPLUG_DET	14	14	C2	I/O	HotPlug Detection for Display Port Alternate Mode
GPIO1	15	–	–	I/O	General-purpose I/O
VSEL2	–	15	–	O	Voltage Select signal 2 for selecting output voltage
GPIO2	16	–	–	I/O	General-purpose I/O
GPIO3	17	–	–	I/O	General-purpose I/O
IFAULT	–	17	–	I	Current Fault Indication 0: No fault 1: Current fault
I2C_SCL	18	18	B1	I/O	I2C Clock signal
I2C_SDA	19	19	B2	I/O	I2C Data signal
I2C_INT	20	20	A2	O	I2C Interrupt
CC_SEL_REF_2	21	21	A1	O	CC Reference Select signal
CC1_RD	22	22	C3	O	Open Drain signal to connect RD to CC 1 line z: RD not connected 0: RD connected for Monitor application 1: RD connected for Notebook application
CC1_RP	23	23	A5	O	Open Source signal to connect RP to CC 1 line z: RP not connected 1: RP connected

Notes
8. Pinout for Notebook DRP application for 40-QFN.
9. Pinout for Monitor DRP application for 40-QFN.
10. Pinout for Notebook DRP application for 35-CSP.

Table 3 provides the pin definition for 40-pin QFN for Notebook (DFP) application. Refer to Table 23 for part numbers to package mapping.

Table 3. Pin Definitions for 40-Pin QFN for Notebook (DFP)

Functional Pin Name	Active HIGH/ LOW	Drive Mode	CYPD 1134-40LQXI Pins	Type	Description
MUXSEL_1	–	Open drain, drives low	1	O	External Data Mux Select signal 1
MUXSEL_2	–	Open drain, drives low	2	O	External Data Mux Select signal 2
CC1_CTRL	–	Analog input/Strong drive (push pull)	3	IO	CC1 control 0:Tx enabled z: RX sense
CC2_CTRL	–	Analog input/Strong drive (push pull)	4	IO	CC2 control 0: TX enabled z: RX sense
MUXSEL_3	–	Open drain, drives low	5	O	External Data Mux Select signal 3
MUXSEL_4	–	Open drain, drives low	6	O	External Data Mux Select signal 4
CS_P	–	Analog input	7	I	Current Sensing Plus input
CS_M	–	Analog input	8	I	Current Sensing Minus input
VSS	–	–	9	GND	Ground
CC1	–	Strong drive (push pull)	10	O	Configuration Channel 1
CC1_RP_1.5	Active HIGH	Open drain, drives high	11	O	Open Drain signal to connect RP to CC1 line (1.5A current) z: RP not connected 1: RP connected
SWD_IO	–	–	12	IO	SWD IO
SWD_CLK	–	–	13	I	SWD Clock
CC1_RP_3.0	Active HIGH	Open drain, drives high	14	O	Open Source signal to connect RP to CC1 line (3A current) z: RP not connected 1: RP connected
CC1_RP_DEF	Active HIGH	Open drain, drives high	15	O	Open Drain signal to connect RP to CC1 line (Default current) z: RP not connected 1: RP connected
CC2_RP_DEF	Active HIGH	Open drain, drives high	16	O	Open Drain signal to connect RP to CC2 line (Default current) z: RP not connected 1: RP connected
CC2_RP_1.5	Active HIGH	Open drain, drives high	17	O	Open Drain signal to connect RP to CC2 line (1.5A current) z: RP not connected 1: RP connected
I2C_SCL	Active LOW	Open drain, drives low	18	IO	I^2C Clock signal
I2C_SDA	Active LOW	Open drain, drives low	19	IO	I^2C Data signal
I2C_INT	Active LOW	Open drain, drives low	20	O	I^2C Interrupt

Table 3. Pin Definitions for 40-Pin QFN for Notebook (DFP) *(continued)*

Functional Pin Name	Active HIGH/ LOW	Drive Mode	CYPD 1134-40LQXI Pins	Type	Description
CC2_RP_3.0	Active HIGH	Open drain, drives high	21	O	Open Source signal to connect RP to CC2 line (3A current) z: RP not connected 1: RP connected
CC1_LPRX	–	Analog input	22	I	Configuration channel 1 RX signal for Low Power states
CC1_LPREF	–	Analog input	23	I	Reference signal for internal use.
CC2_LPRX	–	Analog input	24	I	Configuration channel 2 RX signal for Low Power states
CC2_LPREF	–	Analog input	25	I	Reference signal for internal use.
CC2	–	Strong drive (push pull)	26	O	Configuration Channel 2
CC1_VCONN_CTRL	Active LOW	Open drain, drives low	27	O	Open Drain signal to control a PFET power switch for VCONN on CC1 line 0: VCONN switch closed z: VCONN switch open
CC2_VCONN_CTRL	Active LOW	Open drain, drives low	28	O	Open Drain signal to control a PFET power switch for VCONN on CC2 line 0: VCONN switch closed z: VCONN switch open
IFAULT	Active HIGH	Digital input	29	I	Current Fault Indication on VBUS 0: No fault 1: Over Current fault
XRES	Active LOW	Analog input	30	I	Reset
VCCD	–	–	31	POWER	Connect 1uf Capacitor between VCCD and Ground
VDDD	–	–	32	POWER	5-V Supply
VDDA	–	–	33	POWER	5-V Supply
VSSA	–	–	34	GND	–
E-PAD	–	–	E-PAD	GND	–
VBUS_VMON	–	Analog input	35	I	VBUS Over-voltage Protection monitoring signal
VBUS_VREF	–	Analog input	36	I	VBUS reference signal for Over-voltage Protection detection
VBUS_P_CTRL	Active HIGH	Strong drive (Push Pull)	37	O	Full rail control signal for enabling/disabling Provider load FET
HOTPLUG_DET	Active HIGH	Open drain, drives low	38	IO	HotPlug Detection for Display Port Alternate Mode
CC_VREF/ VBUS_DISCHARGE	-/Active HIGH	Analog input/Strong drive (Push Pull)	39	IO	Data reference signal for CC lines / Signal used for discharging VBUS line during voltage change
MUXSEL_5	–	Open drain, drives low	40	O	External Data Mux Select signal 5

Pinouts

Figure 2. Pinout for CYPD1122-40LQXI/CYPD1121-40LQXI

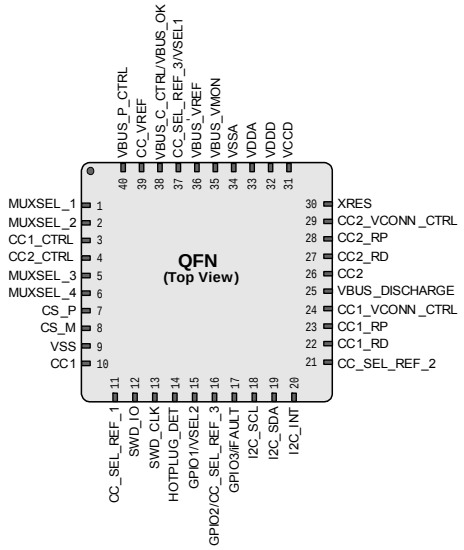


Figure 3. Pinout for CYPD1134-40LQXI

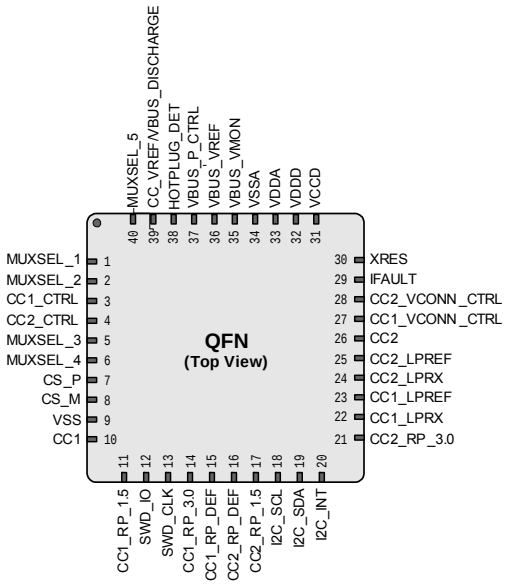


Figure 4. Pinout for CYPD1132-16SXI

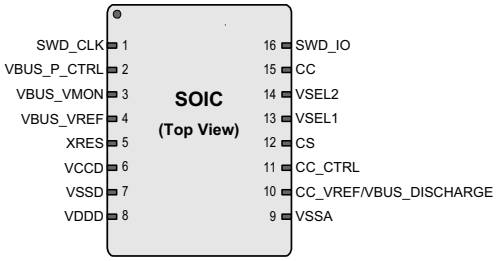
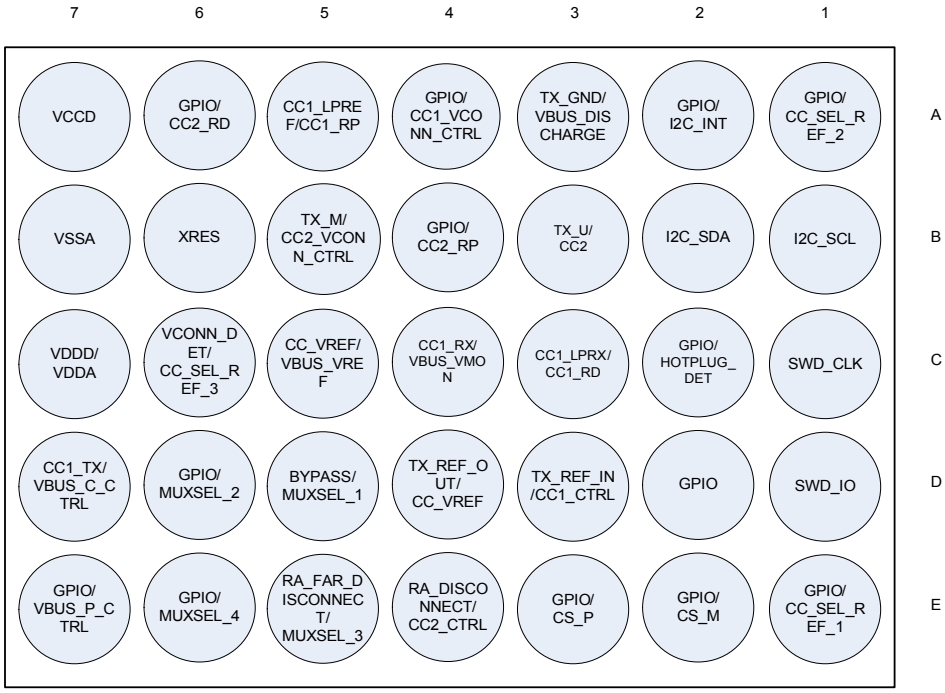


Figure 5. Pinout for CYPD1103-35FNXIT/CYPD1131-FNXIT



Power

The following power system diagram shows the minimum set of power supply pins as implemented for the CCG1. The system has one regulator in Active mode for the digital circuitry. There is no analog regulator; the analog circuits run directly from the VDDA input. There is a separate regulator for the Deep Sleep mode. There is a separate low-noise regulator for the bandgap. The supply voltage range is 3.2 V to 5.5 V with all functions and circuits operating over that range.

VDDA and VDDD must be shorted together; the grounds, VSSA and VSS must also be shorted together. Bypass capacitors must be used from VDDD to ground. The typical practice for systems in this frequency range is to use a capacitor in the 1-µF range in parallel with a smaller capacitor (0.1 µF, for example). Note that these are simply rules of thumb and that, for critical applications, the PCB layout, lead inductance, and the bypass capacitor parasitic should be simulated to design and obtain optimal bypassing.

Refer to Application Diagrams for bypassing schemes.

I^2C

Table 12. Fixed I^2C DC Specifications

(Guaranteed by Characterization)

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID149	I_{I2C1}	Block current consumption at 100 kHz	–	–	50	µA	–
SID150	I_{I2C2}	Block current consumption at 400 kHz	–	–	135.00	µA	–
SID151	I_{I2C3}	Block current consumption at 1 Mbps	–	–	310.00	µA	–
SID152	I_{I2C4}	I^2C enabled in Deep Sleep mode	–	–	1.40	µA	–

Table 13. Fixed I^2C AC Specifications

(Guaranteed by Characterization)

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID153	F_{I2C1}	Bit rate	–	–	1.00	Mbps	–

Memory

Table 14. Flash DC Specifications

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID173	V_{PE}	Erase and program voltage	3.20	–	5.50	V	–

Table 15. Flash AC Specifications

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID174	$T_{ROWWRITE}$[13]	Row (block) write time (erase and program)	–	–	20.00	ms	Row (block) = 128 bytes
SID175	$T_{ROWERASE}$[13]	Row erase time	–	–	13.00	ms	–
SID176	$T_{ROWPROGRAM}$[13]	Row program time after erase	–	–	7.00	ms	–
SID178	$T_{BULKERASE}$[13]	Bulk erase time (32 KB)	–	–	35.00	ms	–
SID180	$T_{DEVPROG}$[13]	Total device program time	–	–	7.00	seconds	Guaranteed by characterization
SID181	F_{END}	Flash endurance	100 K	–	–	cycles	Guaranteed by characterization
SID182	F_{RET}[14]	Flash retention. $T_A \leq 55$ °C, 100 K P/E cycles	20	–	–	years	Guaranteed by characterization
SID182A	–	Flash retention. $T_A \leq 85$ °C, 10 K P/E cycles	10	–	–	years	Guaranteed by characterization
SID182B	–	Flash retention. 85 °C < $T_A \leq 105$ °C, 10K P/E cycles	3	–	–	years	Guaranteed by characterization

Notes

13. It can take as much as 20 milliseconds to write to flash. During this time the device should not be Reset, or flash operations will be interrupted and cannot be relied on to have completed. Reset sources include the XRES pin, software resets, CPU lockup states and privilege violations, improper power supply levels, and watchdogs. Make certain that these are not inadvertently activated.
14. Cypress provides a retention calculator to calculate the retention lifetime based on customers' individual temperature profiles for operation over the –40 °C to +105 °C ambient temperature range. Contact customercare@cypress.com.

System Resources

Power-on-Reset (POR) with Brown Out

Table 16. Imprecise Power On Reset (PRES)

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID185	$V_{RISEIPOR}$	Rising trip voltage	0.80	–	1.45	V	Guaranteed by characterization
SID186	$V_{FALLIPOR}$	Falling trip voltage	0.75	–	1.40	V	Guaranteed by characterization
SID187	$V_{IPORHYST}$	Hysteresis	15.0	–	200.0	mV	Guaranteed by characterization

Table 17. Precise Power On Reset (POR)

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID190	$V_{FALLPPOR}$	BOD trip voltage in active and sleep modes	1.64	–	–	V	Guaranteed by characterization
SID192	$V_{FALLDPSLP}$	BOD trip voltage in Deep Sleep	1.40	–	–	V	Guaranteed by characterization

SWD Interface

Table 18. SWD Interface Specifications

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID213	F_SWDCLK1	$3.2\ V \le V_{DDD} \le 5.5\ V$	–	–	14.00	MHz	SWDCLK ≤1/3 CPU clock frequency
SID215	T_SWDI_SETUP	T = 1/f SWDCLK	0.25 × T	–	–	ns	Guaranteed by characterization
SID216	T_SWDI_HOLD	T = 1/f SWDCLK	0.25 × T	–	–	ns	Guaranteed by characterization
SID217	T_SWDO_VALID	T = 1/f SWDCLK	–	–	0.50*T	ns	Guaranteed by characterization
SID217A	T_SWDO_HOLD	T = 1/f SWDCLK	1	–	–	ns	Guaranteed by characterization

Internal Main Oscillator

Table 19. IMO DC Specifications

(Guaranteed by Design)

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID218	I_{IMO1}	IMO operating current at 48 MHz	–	–	1000.00	µA	–

Table 20. IMO AC Specifications

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID223	$F_{IMOTOL1}$	Frequency variation	–	–	±2.00	%	With API-called calibration
SID226	$T_{STARTIMO}$	IMO startup time	–	–	12.00	µs	–
SID229	$T_{JITRMSIMO3}$	RMS Jitter at 48 MHz	–	139.00	–	ps	–

Internal Low-Speed Oscillator

Table 21. ILO DC Specifications

(Guaranteed by Design)

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID231	I_{ILO1}	ILO operating current at 32 kHz	–	0.30	1.05	µA	Guaranteed by characterization
SID233	$I_{ILOLEAK}$	ILO leakage current	–	2.00	15.00	nA	Guaranteed by design

Table 22. ILO AC Specifications

Spec ID	Parameter	Description	Min	Typ	Max	Units	Details/Conditions
SID234	$T_{STARTILO1}$	ILO startup time	–	–	2.00	ms	Guaranteed by characterization
SID236	$T_{ILODUTY}$	ILO duty cycle	40.00	50.00	60.00	%	Guaranteed by characterization
SID237	$F_{ILOTRIM1}$	32-kHz trimmed frequency	15.00	32.00	50.00	kHz	±60% with trim

Figure 7. Two Chip/Cable, Component Count = 15/paddle

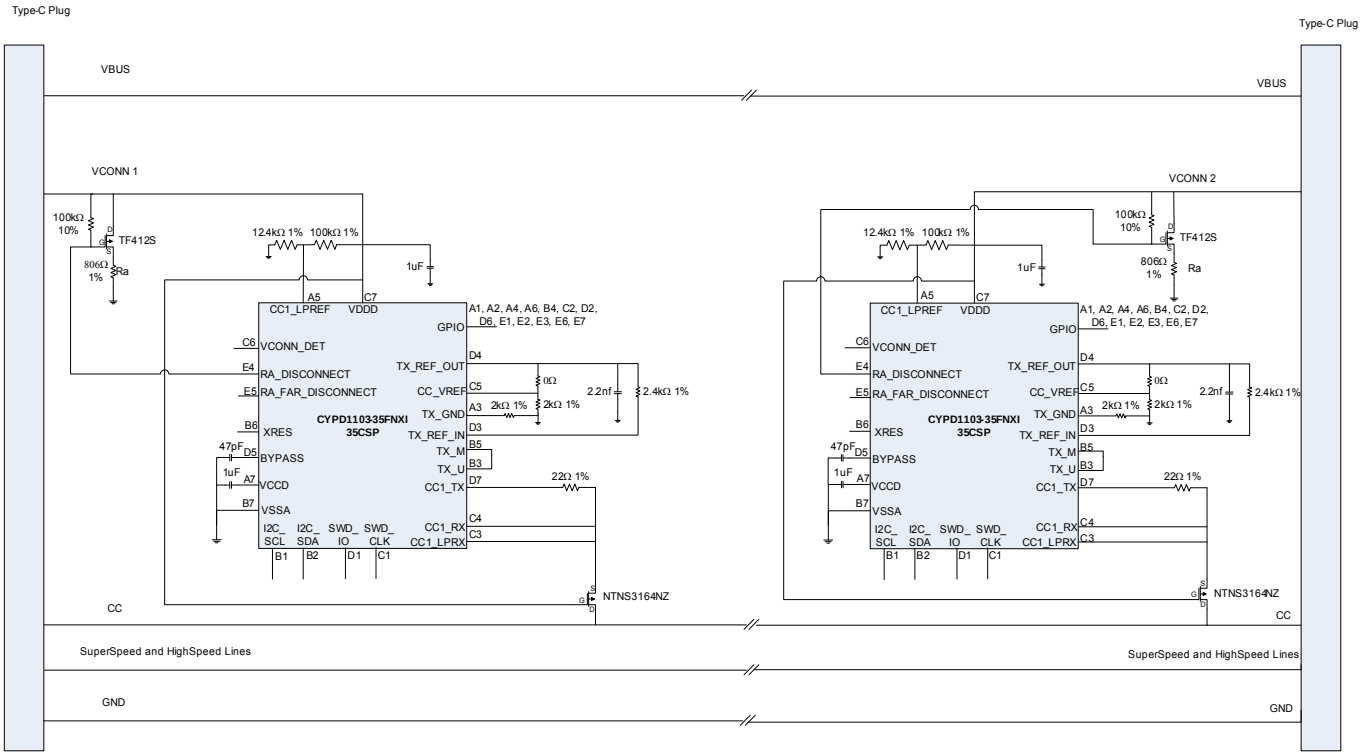


Figure 8. 16-pin SOIC Power Adapter Application Diagram

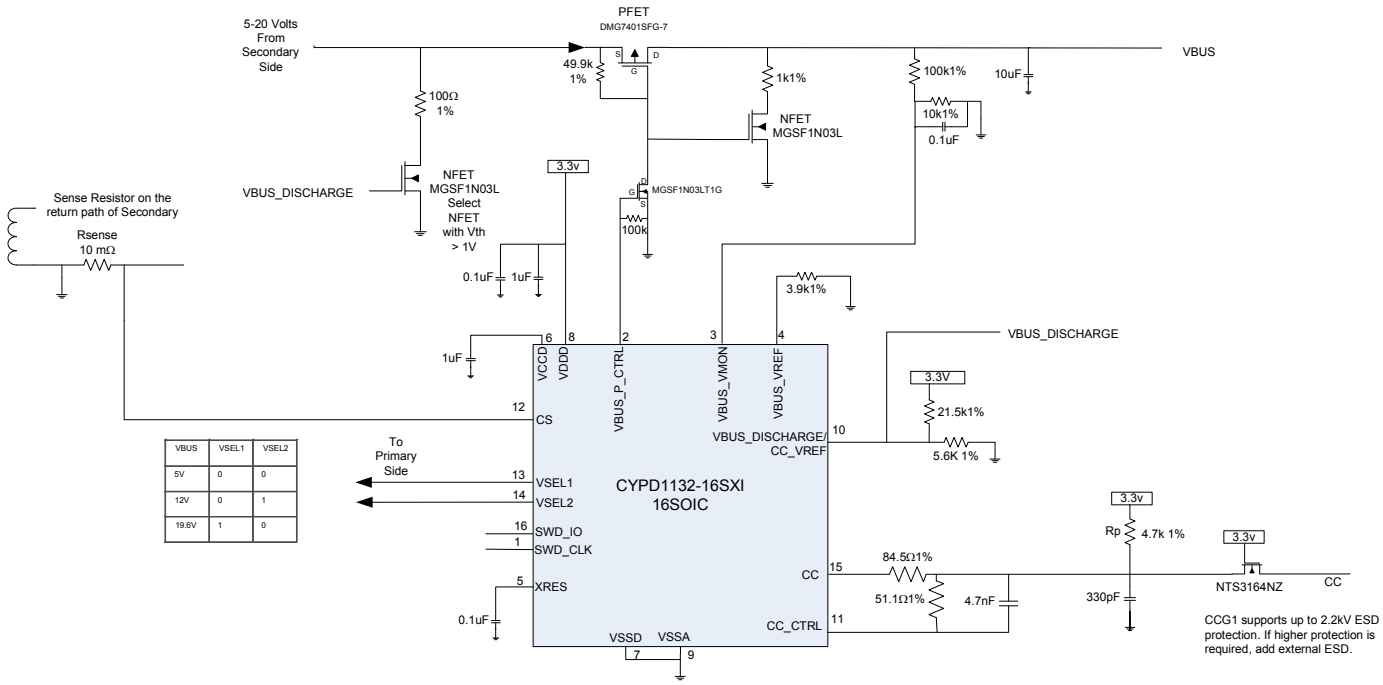


Figure 9. Notebook (DRP) Application Diagram

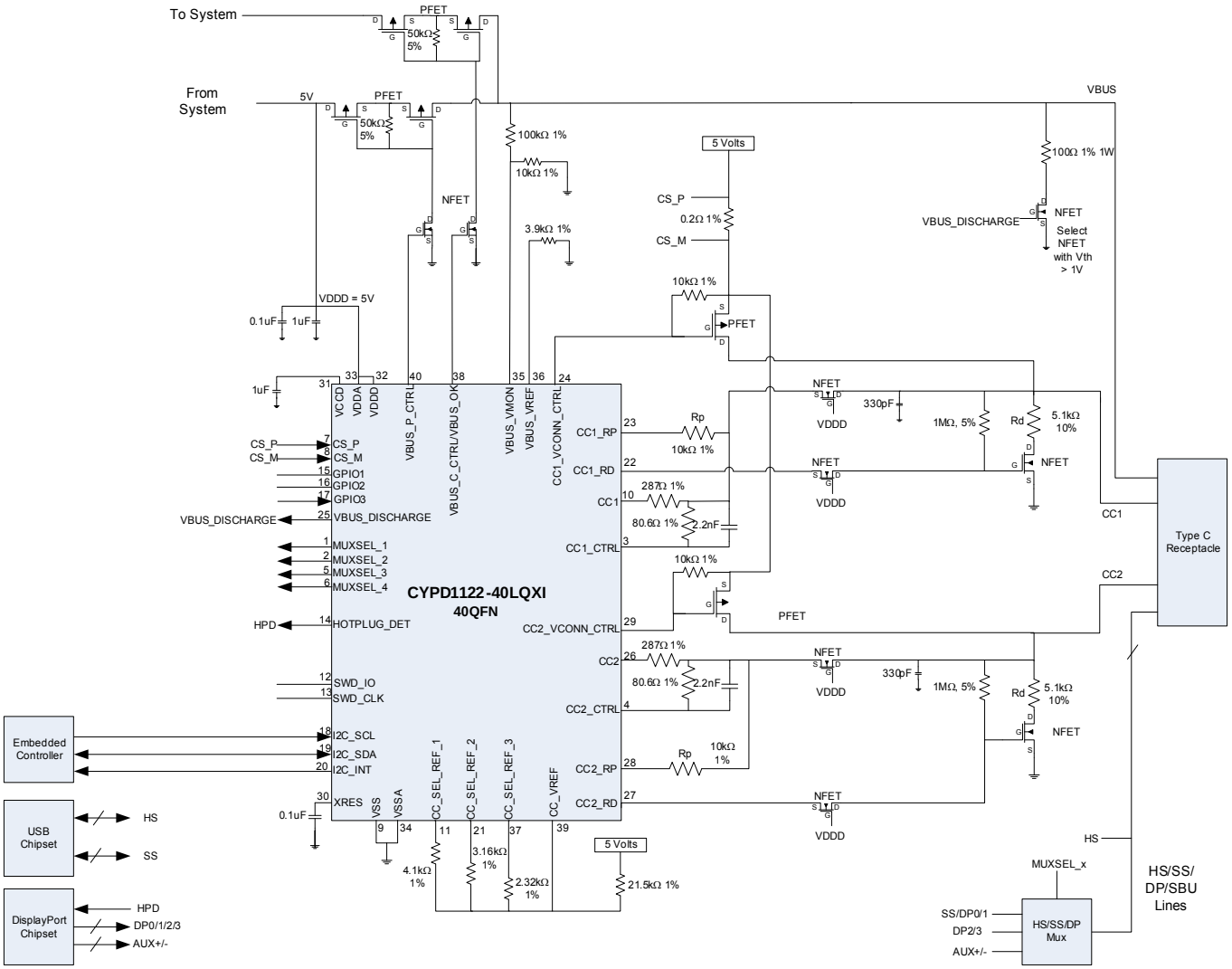
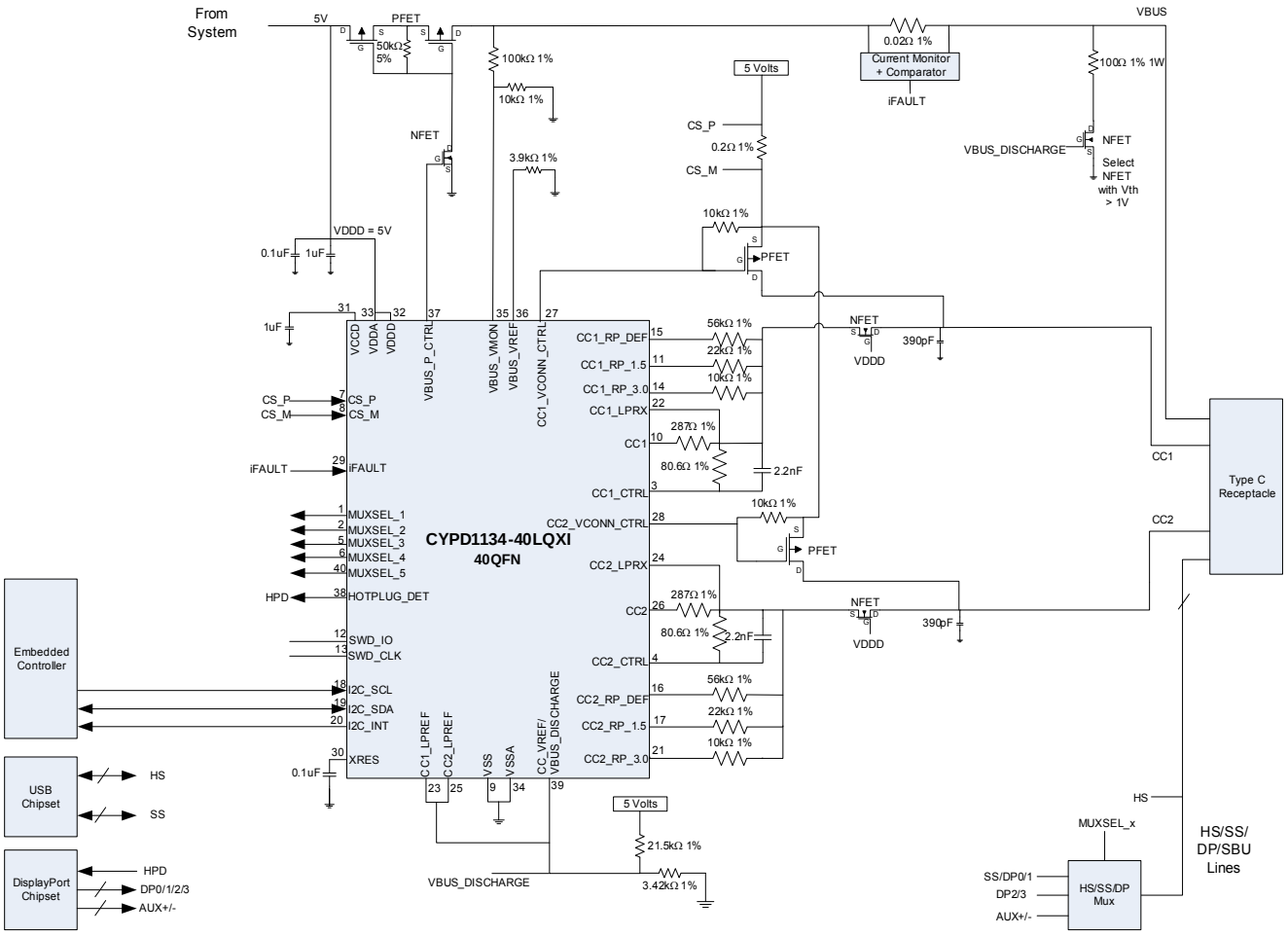


Figure 10. Notebook (DFP) Application Diagram



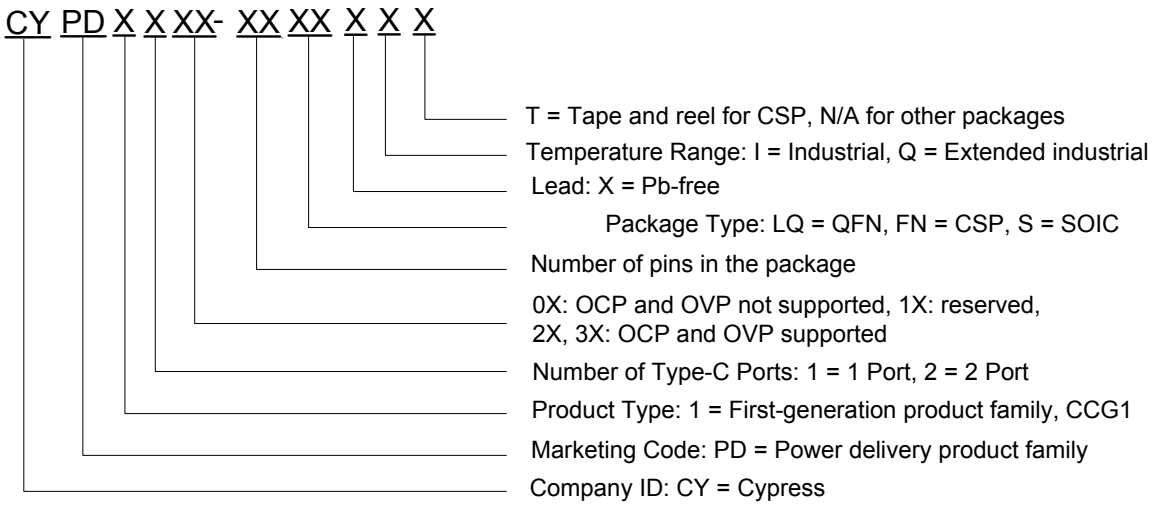
Ordering Information

The CCG1 part numbers and features are listed in the following table.

Table 23. CCG1 Ordering Information

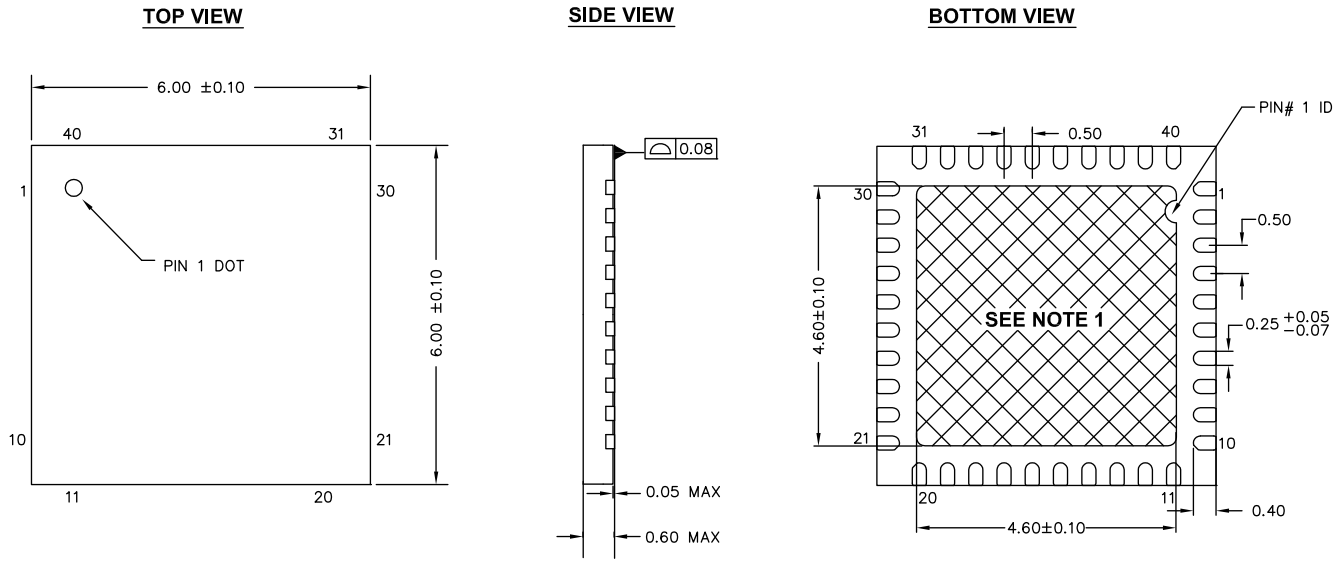
Part Number[15]	Application	Type-C Ports[16]	Overcurrent Protection	Overvoltage Protection	Termination Resistor[17]	Role[18]	Package	Si ID
CYPD1103-35FNXIT	Cable, EMCA	1	No	No	R_a[19]	Cable	35-WLCSP[20]	0490
CYPD1131-35FNXIT	Notebook, Tablet, Smartphone	1	Yes	Yes	R_p[23], R_d[21]	DRP[24]	35-WLCSP[22]	0491
CYPD1121-40LQXI	Monitor	1	Yes	Yes	R_p[23], R_d[21]	DRP[24]	40-QFN	0489
CYPD1122-40LQXI	Notebook	1	Yes	Yes	R_p[23], R_d[21]	DRP[24]	40-QFN	048A
CYPD1134-40LQXI	Notebook, Desktop	1	Yes	Yes	R_p[23]	DFP	40-QFN	048B
CYPD1132-16SXI	Power Adapter	1	Yes	Yes	R_p[23]	DFP	16-SOIC	0498
CYPD1132-16SXQ	Power Adapter	1	Yes	Yes	R_p[23]	DFP	16-SOIC	0498

Ordering Code Definitions



Notes
15. All part numbers support: Input voltage range from 3.2 V to 5.5 V. Industrial parts support -40 °C to +85 °C, Extended Industrial parts support -40 °C to 105 °C.
16. Number of USB Type-C Ports supported .
17. Default V_{CONN} termination.
18. PD Role.
19. Type-C Cable Termination.
20. 35-WLCSP #1 pinout.
21. USB Device Termination.
22. 35-WLCSP #2 pinout.
23. USB Host Termination.
24. Dual Role Port.

Figure 12. 40-pin QFN Package Outline, 001-80659



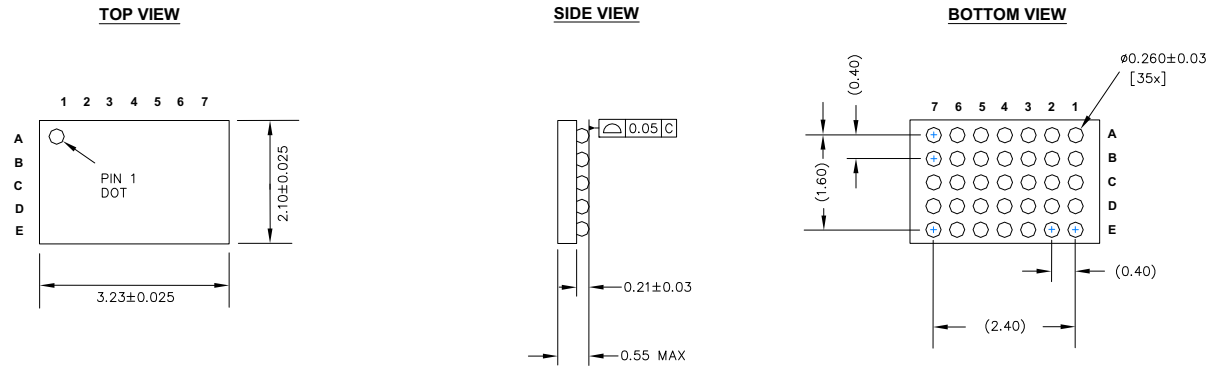
NOTES:

1. HATCH AREA IS SOLDERABLE EXPOSED PAD
2. REFERENCE JEDEC # MO-248
3. PACKAGE WEIGHT: 68 ±2 mg
4. ALL DIMENSIONS ARE IN MILLIMETERS

001-80659 *A

The center pad on the QFN package should be connected to ground (VSS) for best mechanical, thermal, and electrical performance. If not connected to ground, it should be electrically floating and not connected to any other signal.

Figure 13. 35-Ball WLCSP Package Outline, 001-93741

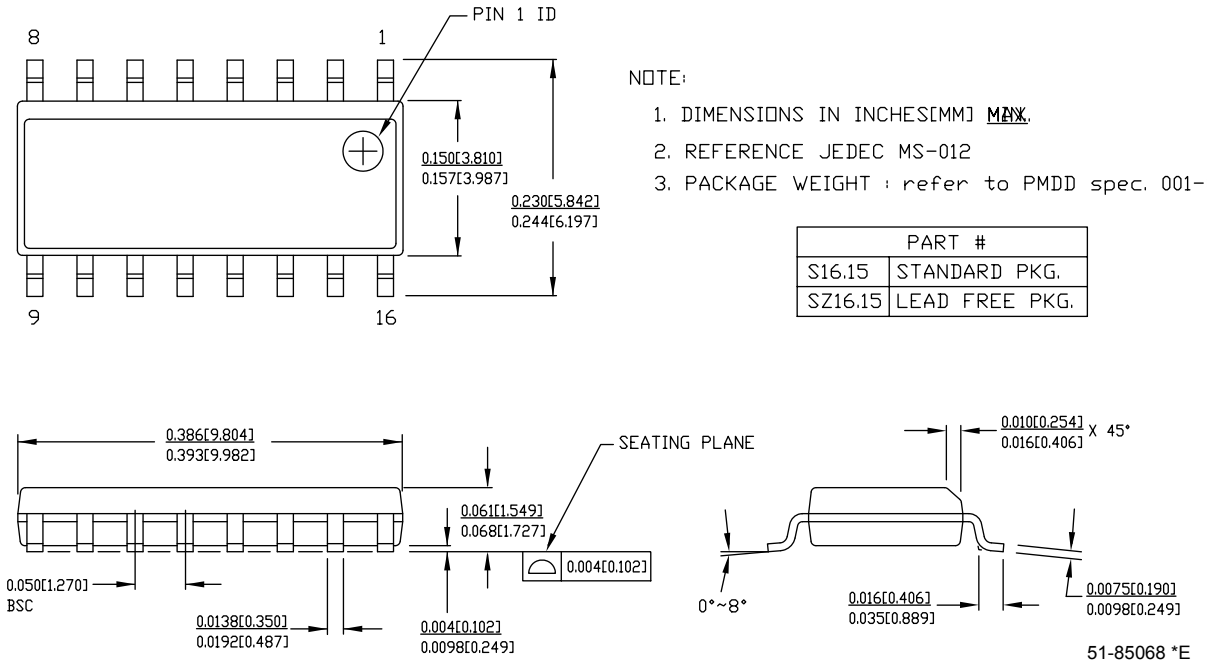


NOTES:

1. REFERENCE JEDEC PUBLICATION 95, DESIGN GUIDE 4.18
2. ALL DIMENSIONS ARE IN MILLIMETERS

001-93741 **

Figure 14. 16-pin SOIC (150 Mils) S16.15/SZ16.15 Package Outline, 51-85068



Document Conventions

Units of Measure

Table 28. Units of Measure

Symbol	Unit of Measure
°C	degrees Celsius
Hz	hertz
KB	1024 bytes
kHz	kilohertz
kΩ	kilo ohm
Mbps	megabits per second
MHz	megahertz
MΩ	mega-ohm
Msps	megasamples per second
µA	microampere
µF	microfarad
µs	microsecond
µV	microvolt
µW	microwatt
mA	milliampere
ms	millisecond
mV	millivolt
nA	nanoampere
ns	nanosecond
Ω	ohm
pF	picofarad
ppm	parts per million
ps	picosecond
s	second
sps	samples per second
V	volt

Revision History

Description Title: CCG1 Datasheet USB Type-C Port Controller with Power Delivery Document Number: 001-93639				
Revision	**ECN**	**Orig. of Change**	**Submission Date**	**Description of Change**
**	4520316	MSMI	09/30/2014	New datasheet
*A	4531795	SJH	10/13/2014	Updated Functional Definition. Updated Figure 8, Figure , Figure 7, Figure , Figure 14, Figure 9. Added Figure 11. Updated Pinouts. Updated Power. Updated Figure , Figure 8. Updated Ordering Information Added Note 24 and referred the same note in 40-pin QFN corresponding to CYPD1122-40LQXI. Added Note 27 and referred the same note in 40-pin QFN corresponding to CYPD1134-40LQXI.
*B	4569912	SJH	11/21/2014	Updated Features. Added 16-pin SOIC related information. Updated Functional Definition. Updated Pin Definitions. Added Table 2. Updated Pinouts. Updated Figure 2, Figure 5. Added Figure 4. Updated Power. Updated Figure , Figure 8. Added Figure 6. Updated Electrical Specifications. Updated Device-Level Specifications. Updated Memory. Added Note 14 and referred the same note in F_{RET} parameter. Added details corresponding to spec ID SID182B under F_{RET} parameter. Updated Figure 14, Figure 9, Figure 11. Added Figure 8 and Figure 10. Updated Ordering Information. Updated part numbers. Added a column “Si ID”. Updated Packaging. Updated Table 24. Updated details in maximum value column corresponding to T_A and T_J parameters. Added 16-pin SOIC related information. Updated Table 25.
*C	4596141	SJH	12/14/2014	Updated Figure 6, Figure 14, Figure 16. Updated Table 8, Table 23.
*D	4646123	SJH	02/04/2015	Updated pin definitions for 40-pin QFN and 35-ball WLCSP. Updated Pinout for CYPD1122-40LQXI/CYPD1121-40LQXI and Ordering Information. Updated conditions for Device-Level Specifications. Updated diagrams in Applications in Detail section.
*E	4686050	VGT	03/13/2015	Removed information about 28-pin SSOP. Updated Table 3, Table 23, Table 24, Table 25, Table 26, Table 27. Updated Figure 2, Figure .
*F	4747272	VGT	05/13//2015	Updated General Description. Added Note 1 and referenced it in Features. Updated Figure 6, Figure 8 through Figure 11. Removed Figure 9. Single Chip/Cable, Component Count = 13. Removed Figure 11. Two Chip/Cable, Component Count = 11/paddle.

Revision History *(continued)*

Description Title: CCG1 Datasheet USB Type-C Port Controller with Power Delivery Document Number: 001-93639				
Revision	**ECN**	**Orig. of Change**	**Submission Date**	**Description of Change**
*G	4800534	VGT	07/02/2015	Updated Low-Power Operation. Updated the number of GPIOs to “up to 30” in GPIO. Updated “1.8 to 5.5 V” to “3.2 V to 5.5 V” in Low-Power Operation, Power System, Power, Device-Level Specifications and Note 15. Updated Table 2, Table 4, Table 5, Table 6, Table 7, Table 8, Table 14 and Table 18. Added table footnotes 8, 9 and 10. Deleted footnotes 25 through 28. Updated Figure 2 and Figure 8 through Figure 11. Added Figure 3. Updated the following in Power: Removed Figures 5 through 8. Updated the section.
*H	4939764	VGT	09/29/2015	Removed specs SID241 and 242. Updated 40-pin QFN package to current revision.
*I	5179365	KISB	03/17/2016	Updated max value of I_{I2C1} from 10.50 µA to 50 µA. Updated copyright information and sales links at the end of the document.
*J	5459633	VGT	10/03/2016	Added compliance information regarding the USB Specification. Updated copyright notice to include WICED. Added IoT link in Sales, Solutions, and Legal Information.

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