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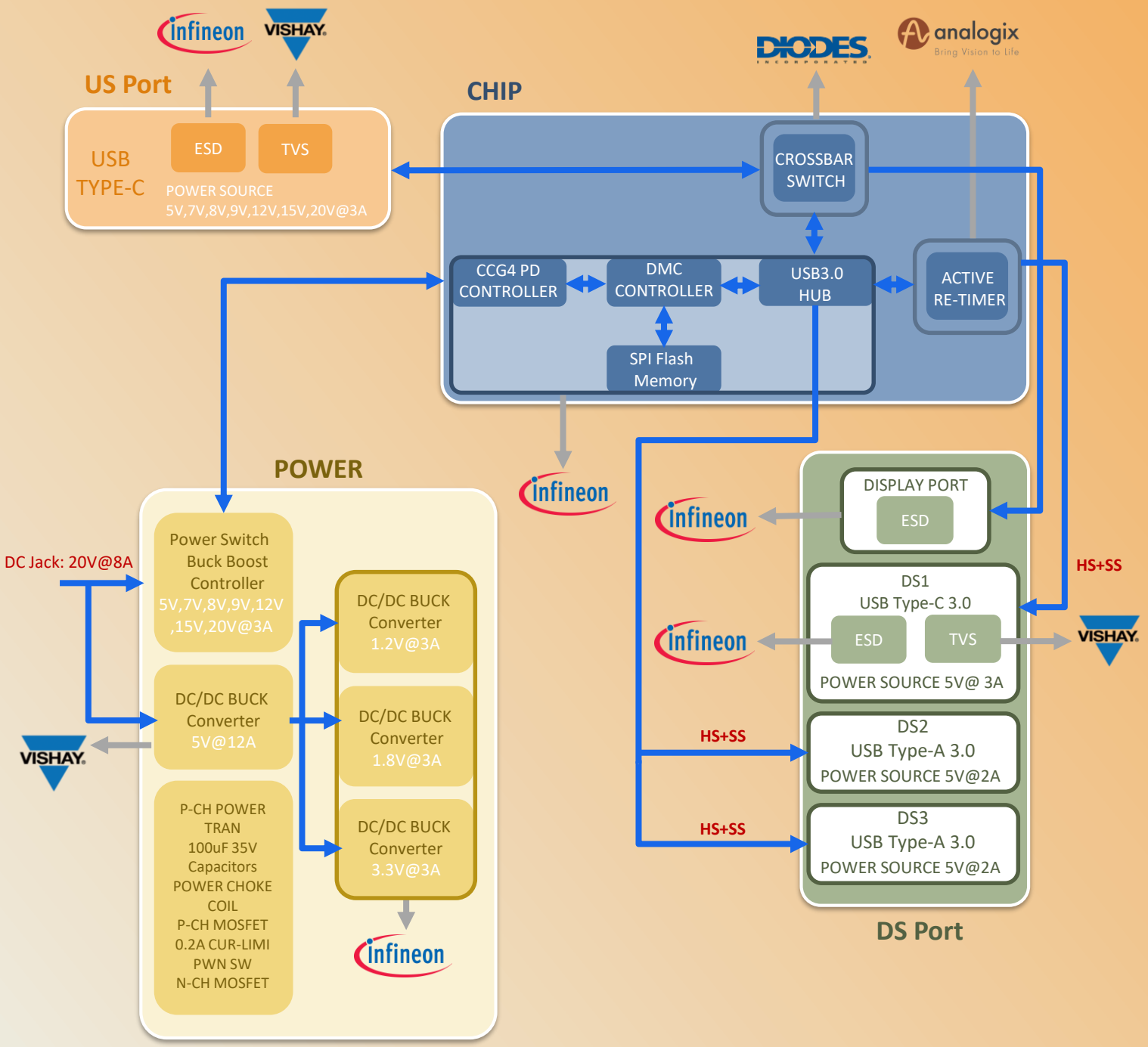
Zenitron Corporation

Zenitron 60W Type-C PD Charger Dock



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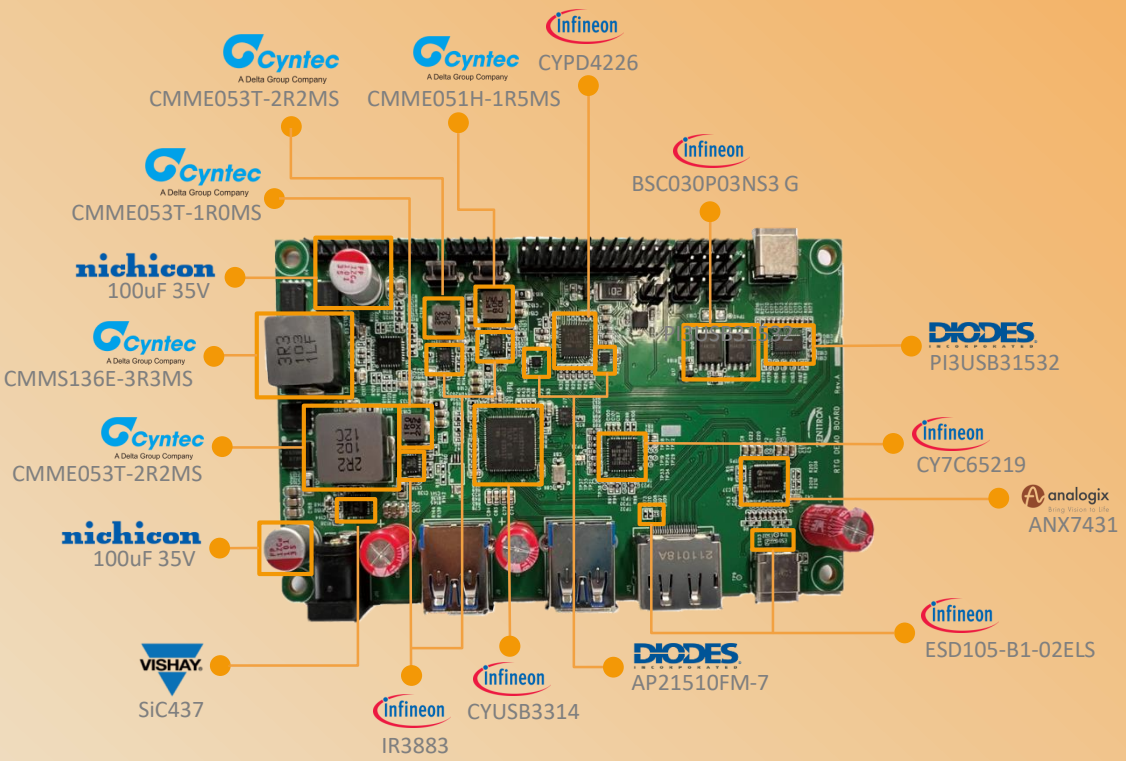

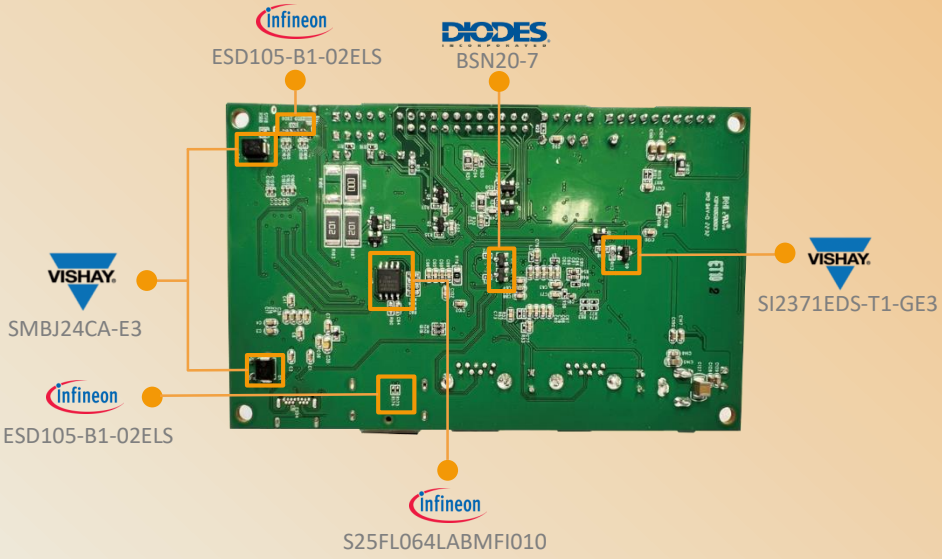

Solution Feature Description

1. Firmware update support by Windows OS and status reporting for DMC and all programmable dock components.
2. Integrated USB Power Delivery 3.0 support.
3. Support DP1.2/DP1.4 Operating.
4. Support 60W Type C charger at US (Up to 100W by FW modify).

Applications

1. Laptop/Destop Extended I/O (Monitor/Other USB device).
2. Laptop PD Charger at US port.

Specification Description

1. PD capability of US Type-C port : 5V@3A, 9V@3A, 15V@3A, 20V@3A.
2. PD capability of DS Type-C port : 5V@3A.
3. DS Type-A ports capability : 5V@1.8A.
4. USB speed is USB 3.2 Gen1 5G bps.
5. DP port : Two lanes or Four lanes.
6. Support temperature range(-40~70 °C).

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Part List

Block	Vendor	Part number	Description
Chip	Infineon	CYPD4226-40LQXIT	USB Type-C Port Controller/QFN-40(6X6X0.6)
		CY7C65219-40LQXIT	Dock Management Controller (DMC)/QFN-40(6X6X0.6)
		CYUSB3314-88LTXC	HX3 USB 3.0 Hub/QFN-88(10X10X1)
		S25FL064LABMFI010	64-Mbit (8-Mbyte) 3.0 V FL-L SPI Flash Memory/SOIC-8
	analogix	ANX7431	20G USB 3.2 Gen 2 Active Re-timer/QFN-50(4.7X6.4X0.85)
	DIODES	PI3USB31532	3.3V, Type-CTM USB 3.1 Gen2/DP1.4 6:4 Crossbar Switch/TQFN-40(3X6X0.75)-ZLC
Power	Infineon	IR3883	800kHz 3A EaSy SupIRBuck® Synchronous Buck Regulator/PQFN-16(3X3X0.85)
		BSC030P03NS3 G	P-channel power transistor/PG-TDSON-8
	nichicon	100uF 35V	Functional Polymer Aluminum Solid Electrolytic Capacitors/EC8
	Cyntec	3.3uH	Power Choke Coil\CMMS136E-3R3MS
		1uH	Power Choke Coil\CMME053T-1R0MS
		2.2uH	Power Choke Coil\CMME053T-2R2MS
		1.5uH	Power Choke Coil\CMME051H-1R5MS
		2.2uH	Power Choke Coil\CMMS136E-2R2MS
	VISHAY	SI2371EDS-T1-GE3	P-Channel 30V MOSFET/SOT-23
	VISHAY	SiC437	DC/DC Buck Converter/MLP44-24L
	DIODES	AP21510FM-7	0.2A SINGLE CHANNEL CURRENT-LIMITED POWER SWITCH/U-DFN2018-6
		BSN20-7	N-CHANNEL ENHANCEMENT MODE FIELD MOSFET/SOT-23
US/DS port	Infineon	ESD105-B1-02ELS	TVS Diodes/TSSLP2-4
	VISHAY	SMBJ24CA-E3/ 52GICT-ND	Transient Voltage Suppressors/SMB

Contact Us

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