1.3 EZ-PD Dock Reference Design

Type-C DS

Receptacle

HDMI PORT

CC

CCG4 PORT2

HS

CYPD4236

BLOCK DIAGRAM DC-JACK **HS+ SS** USB. 3.3V REG 3.3V DS2 TYPE-A CON 24V **BUCK REG** 2V REG 1.2V NCP81239_US 5V@ GA **HS+ SS** USB 3.0 TYPE-A CON US_HS USB 3.0 TO CC CCG4 PORT1 CONTROLLER CY7C65219 DS3 **HS+ SS** DS4 ETHERNET CYPD4236 CYUSB3610 I2C USB 3.0 HUB1 USB 3.0 HUB2 CYUSB3 CYUSB3314 Type-C US DP+SS HS+ SS DS4 USB 3.0 MUX US SS HS Receptacle JSB 2.0 US **DS1** HS P\$8742B TYPE-A CON USB 2.0 HUB DP CY7C65632 HS **USB 2.0** TYPE-A CON DP SPLITTER STDP4320 HDMI DP HDMI LEVEL USB 3.0 MUX PI3USB30532ZLE DS2 SS CONVERTER SN75DP139 SS HDMI

USB 3.0

TYPE-A CON

HS+ SS

DS1

Figure 1-2. EZ-PD Dock Reference Design Block Diagram