U3
TPS73233
Vin
EN
GND
OUT
nc
NR
EPAD
5V0
3V3
C1
4u7
C2
2u2
C3
100n
C9
4u7
L1
BLM18KG700TN1D
R13
1K
LD1
GREEN
U2
TMS320F28069U-PFP
VdIO33
VdFL33
VdADC33
Vdd18
Caps
100n
C10
C11
C12
C13
C14
C15
C16
C17
Caps
2u2
C18
C19
C20
C21
C22
C23
XRSn
VREGENZ
TEST
TRSTn
TCK
TMS
TDI
TDO
X1
X2
DGND
ADCGND
GPIO-39
EPAD
ADC-A0
ADC-A1
CMP1A/ADC-A2
CMP2A/ADC-A4
ADC-A5
CMP3A/ADC-A6
ADC-B0
ADC-B1
CMP1B/ADC-B2
CMP2B/ADC-B4
ADC-B5
CMP3B/ADC-B6
GPIO-00
GPIO-01
GPIO-02
GPIO-03
GPIO-04
GPIO-05
GPIO-06
GPIO-07
GPIO-08
GPIO-09
GPIO-10
GPIO-11
GPIO-12
GPIO-13
GPIO-14
GPIO-15
GPIO-16
GPIO-17
GPIO-18
GPIO-19
GPIO-20
GPIO-21
GPIO-22
GPIO-23
GPIO-24
GPIO-25
GPIO-26
GPIO-27
GPIO-28
GPIO-29
GPIO-30
GPIO-31
GPIO-32
GPIO-33
GPIO-34
RX-slave
TX-slave
J1
HDR-4x8
ADC-A6
ADC-A4
GPIO-33
GPIO-32
GPIO-00
GPIO-01
GPIO-19
GPIO-18
ADC-A2
ADC-B1
ADC-B6
ADC-B0
ADC-B4
ADC-A5
ADC-B2
GPIO-34
ADC-A0
GPIO-07
GPIO-06
GPIO-05
GPIO-04
GPIO-03
GPIO-02
HR-DAC
GPIO-12
ADC-A1
R15
*NoPop
GPIO-17
GPIO-16
U1
FT2232D
AVdd
Vdd
VCCIO-A
VCCIO-B
3V3-Out
USBD-M
USBD-P
RST-Out
RST-In
XTL-In
XTL-Out
EE-CS
EE-SCL
EE-DATA
TEST
AGND
GND
ADBUS0
ADBUS1
ADBUS2
ADBUS3
ADBUS4
ADBUS5
ADBUS6
ADBUS7
ACBUS0
ACBUS1
ACBUS2
ACBUS3
SI/WUA
BDBUS0
BDBUS1
BDBUS2
BDBUS3
BDBUS4
BDBUS5
BDBUS6
BDBUS7
BCBUS0
BCBUS1
BCBUS2
BCBUS3
SI/WUB
PWREN#
TCK
TDI
TDO
TMS
TRSTn
OE
C4
100n
C5
100n
C6
100n
C7
100n
C8
33n
R1
470R
R2
27R
R3
27R
R4
1K5
R5
1M
R10
2K2
R9
3K3
X1
6MHz CRYSTAL
JP1
USB_A
+5V
Data-P
Data-M
GND
SH
Digikey no: MINISMDC050FCT-ND
Digikey no: WM17117
Digikey no: XC1118CT-ND
Manufactor no: ECS-120-20-30B-TR
U4
93LC46B
VCC
GND
CS
CLK
D-IN
D-OUT
C24
100n
R6
2K2
R7
10K
U5
SN74LVC2G74
CLK
D
Q̅
Q
VCC
PRE̅
CLR̅
GND
C25
100n
R8
1k
C26
100n
R14
10K
R11
1K
LD2
RED
GPIO-34
U6
LVC2G74
OEn
IN
OUT
Vdd
Gnd
GPIO-00
C27
100n
R12
150R
HR-DAC
C28
12n
FID1
FID40
FID2
FID40
FID3
FID40
FID4
FID40
FID5
FID40
FID6
FID40

C2000,TEXAS INSTRUMENTS

Title

Piccolo F28069 controlSTICK

Size C

Document Number F28069

Rev 1.0

Date: Friday, November 12, 2010 Sheet 1 of 1

F28069 USB controlSTICK PIN-OUT TABLE

1 ADC-A6 COMP3 (+VE)	**2** ADC-A2 COMP1 (+VE)	**3** ADC-A0	**4** 3V3
5 ADC-A4 COMP2 (+VE)	**6** ADC-B1	**7** EPWM-4B GPIO-07	**8** TZ1 GPIO-12
9 SCL-A GPIO-33	**10** ADC-B6 COMP3 (-VE)	**11** EPWM-4A GPIO-06	**12** ADC-A1
13 SDA-A GPIO-32	**14** ADC-B0	**15** EPWM-3B GPIO-05	**16** 5V0 (Disabled by Default)
17 EPWM-1A GPIO-00	**18** ADC-B4 COMP2 (-VE)	**19** EPWM-3A GPIO-04	**20** SPISOMI-A GPIO-17
21 EPWM-1B GPIO-01	**22** ADC-A5	**23** EPWM-2B GPIO-03	**24** SPISIMO-A GPIO-16
25 SPISTE-A GPIO-19	**26** ADC-B2 COMP1 (-VE)	**27** EPWM-2A GPIO-02	**28** GND
29 SPICLK-A GPIO-18	**30** GPIO-34 (LED)	**31** PWM1A-DAC (Filtered)	**32** GND

2.3 Pin Assignments

Figure 2-8 shows the 80-pin PN/PFP pin assignments. Figure 2-9 shows the 100-pin PZ/PZP pin assignments.
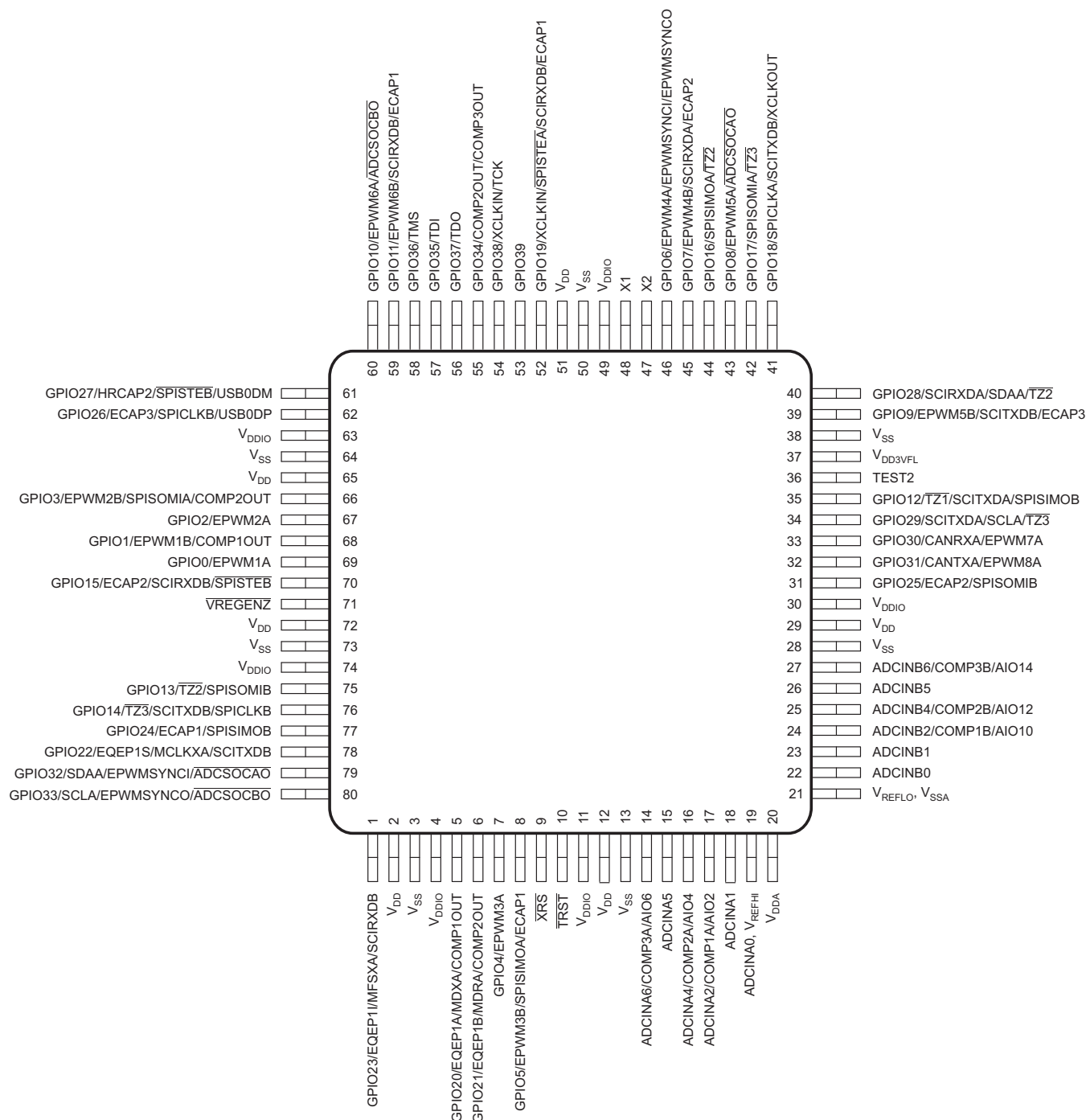
A. Pin 19: V_REFHI and ADCINA0 share the same pin on the 80-pin PN/PFP device and their use is mutually exclusive to one another.
Pin 21: V_REFLO is always connected to V_SSA on the 80-pin PN/PFP device.

Figure 2-8. 80-Pin PN/PFP (Top View)

Device Overview   19

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