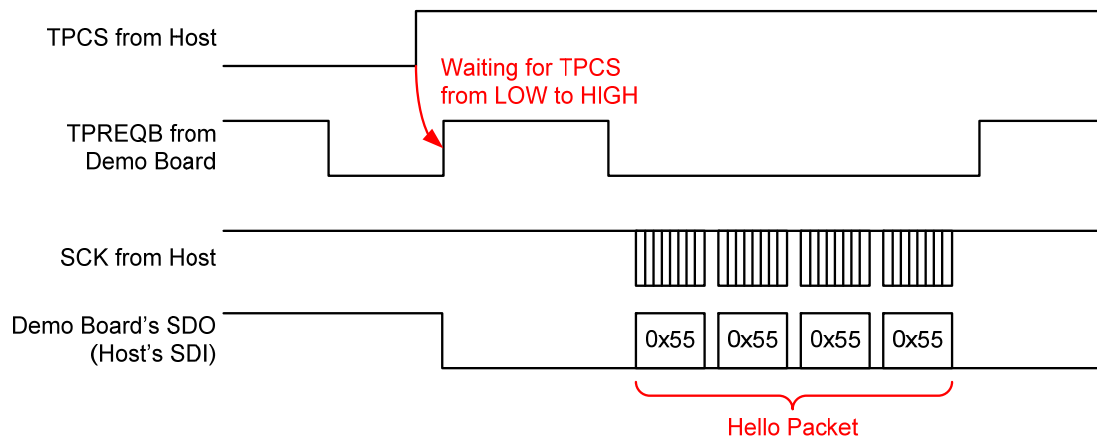
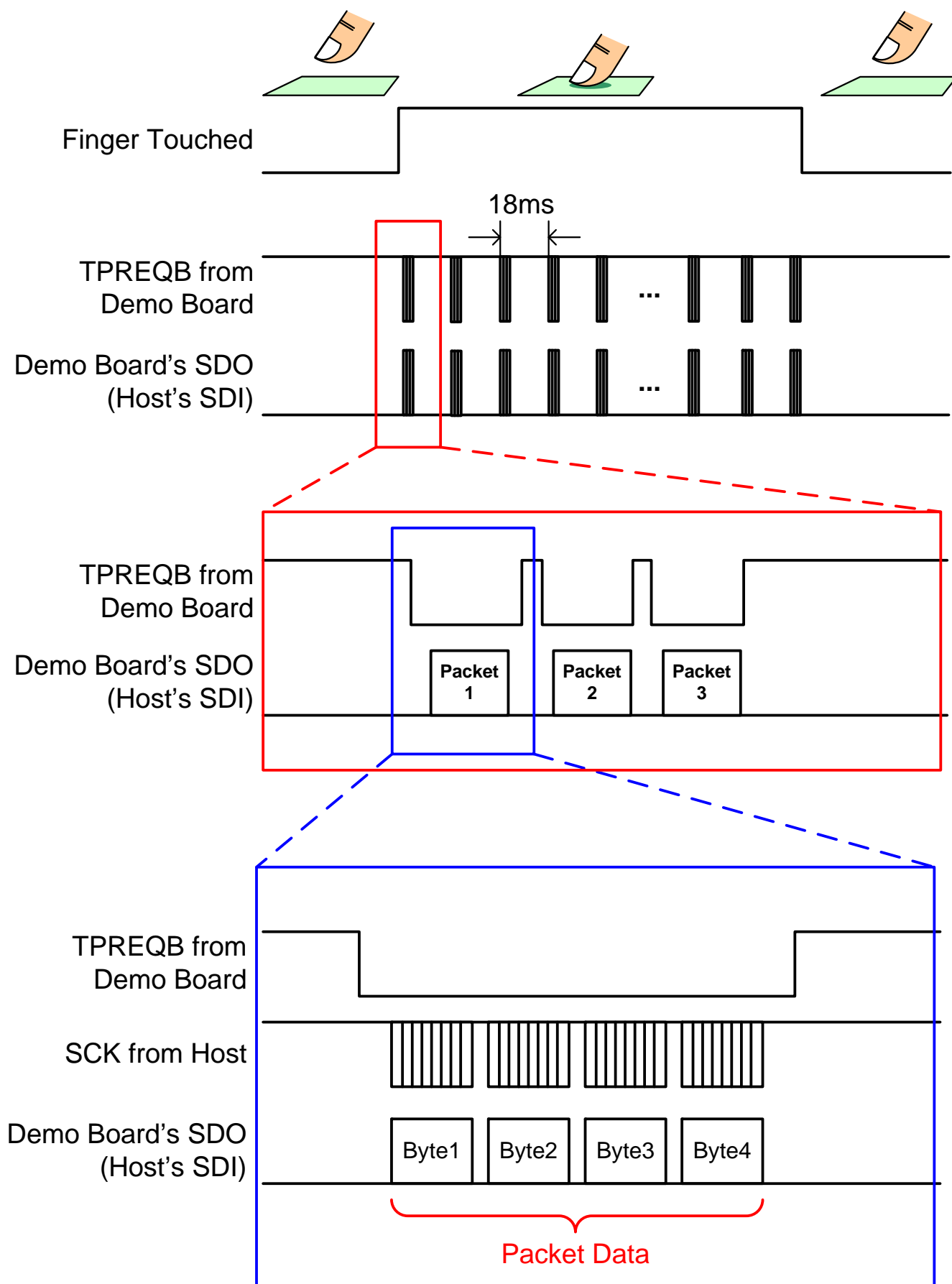


JP1 pin #	Pin Name on Demo Board	I/O	Description
1	VDD	-	Power (3V~5.5V)
2	TPREQB	O	Request signal
3	SDO	O	SPI data out, connect to host's SDI
4	SDI	I	SPI data in, connect to host's SDO
5	SCK	I	SPI clock from host
6	TPCS	I	Chip select signal
7	GND	-	Ground
8	NC	-	No connect

Power-on synchronizes:





Packet1 (Finger Status)

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte1	0	1	0	1	0	1	1	0
Byte2	P2RX[8]	P2RY[8]	0	P2FS	P1RX[8]	P1RY[8]	0	P1FS
Byte3	P1RX [7:0]							
Byte4	P1RY [7:0]							

Packet2 (Pattern1 Coordinate Information)

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte1	0	1	0	1	0	1	1	1
Byte2	P1AX [7:0]							
Byte3	P1AY [7:0]							
Byte4	P2RX [7:0]							

Packet3 (Pattern2 Coordinate Information)

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte1	0	1	0	1	1	0	0	1
Byte2	P2AX [7:0]							
Byte3	P2AY [7:0]							
Byte4	P2RY [7:0]							

P1FS: Pattern finger status

0 → No finger on pattern1

1 → Finger detected on pattern1

P2FS: Pattern finger status

0 → No finger on pattern2

1 → Finger detected on pattern2

P1AX [7:0]: Finger's X absolute coordinate on pattern1**P1AY [7:0]:** Finger's Y absolute coordinate on pattern1**P2AX [7:0]:** Finger's X absolute coordinate on pattern2**P2AY [7:0]:** Finger's Y absolute coordinate on pattern2**P1RX [8:0]:** Finger's X relative coordinate on pattern1**P1RY [8:0]:** Finger's Y relative coordinate on pattern1**P2RX [8:0]:** Finger's X relative coordinate on pattern2**P2RY [8:0]:** Finger's Y relative coordinate on pattern2

Sleep mode:

