

Table 1 shows the I/O pins for the EPC16 100-pin plastic quad flat pack (PQFP) package.

<b>Table 1. EPC16 Configuration Device Pins</b>			
<b>Pin Name</b>	<b>Pin Type</b>	<b>Description</b>	<b>100-Pin PQFP</b>
EXCLK	Input	External clock source.	61
DCLK	Output	Configuration devices drive this signal to the programmable logic device (PLD) as a configuration clock.	11
DATA0	Output	PLD configuration output data bus.	73
DATA1	Output	PLD configuration output data bus.	84
DATA2	Output	PLD configuration output data bus.	88
DATA3	Output	PLD configuration output data bus.	91
DATA4	Output	PLD configuration output data bus.	96
DATA5	Output	PLD configuration output data bus.	10
DATA6	Output	PLD configuration output data bus.	9
DATA7	Output	PLD configuration output data bus.	8
OE	Open-Drain Input/Output	Configuration devices sense that OE goes high, before starting PLD configuration.	23
n_INIT_CONF	Output	Initiate configuration.	16
nCS	Input	Connected to CONF_DONE in the PLD. The PLD will drive it low, when OE asserted.	60
TDI	Input	Joint Test Action Group (JTAG) data input.	42
TDO	Output	JTAG data output.	44
TMS	Input	JTAG mode selection.	48
TCK	Input	JTAG clock	35
PGM1	Input	Select one of eight pages that contains configuration data.	13
PGM0	Input	Select one of eight pages that contains configuration data.	14
PGM2	Input	Select one of eight pages that contains configuration data.	15
PORSEL	Input	Select 2 ms or 100 ms power-on reset (POR).	66
TM0	Input	Select test mode for configuration device.	71
TM1	Input	Select test mode for configuration device.	40
GND	Supply	Ground pins.	2, 41, 58, 70, 69, 79
NC	No Connect	No Connect pins.	3, 4, 18, 19, 20, 30, 63, 64, 76, 77
Floating (1)	Unconnected	Unconnected pins.	7, 24, 57, 74
BYTE# (2)	Input	Flash byte enable. Connected to VCC.	5
VCC	Supply	Power supply pins.	12, 22, 59, 67, 68, 92
VCCW	Supply	Flash program/erase power supply.	43
C -WE#	Input	Controller write enable pin. Should be connected to F -WE# on the board.	33
F -WE#	Input	Flash write enable pin. Should be connected to C -WE# on the board.	38
CE#	Input	Flash pin that activates the flash memory.	78
OE#	Input	Flash pin that enables the drivers of flash output pins.	80
RY/BY# (3)	Output	Flash ready busy pin. Will be asserted when write or erase operation is completed.	37
F -RP#	Input	Flash pin which resets the flash memory. Should be connected to C -RP# on the board.	39
C -RP#	Input	Flash pin that resets the flash memory. Should be connected to F -RP# on the board.	72
WP#	Input	Flash pin that should be tied to VCC or GND on the board.	45
F-A0	Input	Address input to flash memory. Should be connected to C-A0 on the board.	75
C-A0	Input	Address input to flash memory. Should be connected to F-A0 on the board.	65
F-A1	Input	Address input to flash memory. Should be connected to C-A1 on the board.	56
C-A1	Input	Address input to flash memory. Should be connected to F-A1 on the board.	62
A2	Input	Address input to flash memory.	55
A3	Input	Address input to flash memory.	54
A4	Input	Address input to flash memory.	53
A5	Input	Address input to flash memory.	52
A6	Input	Address input to flash memory.	51
A7	Input	Address input to flash memory.	50
A8	Input	Address input to flash memory.	34
A9	Input	Address input to flash memory.	32

<b>Table 1. EPC16 Configuration Device Pins</b>			
<b>Pin Name</b>	<b>Pin Type</b>	<b>Description</b>	<b>100-Pin PQFP</b>
A10	Input	Address input to flash memory.	31
A11	Input	Address input to flash memory.	29
A12	Input	Address input to flash memory.	28
A13	Input	Address input to flash memory.	27
A14	Input	Address input to flash memory.	26
F-A15	Input	Address input to flash memory. Should be connected to C-A15 on the board.	25
C-A15	Input	Address input to flash memory. Should be connected to F-A15 on the board.	21
F-A16	Input	Address input to flash memory. Should be connected to C-A16 on the board.	6
C-A16	Input	Address input to flash memory. Should be connected to F-A16 on the board.	17
A17	Input	Address input to flash memory.	49
A18	Input	Address input to flash memory.	47
A19	Input	Address input to flash memory.	46
A20 (3)	Input	Address input to flash memory.	36
DQ0	Input/Output	Data bus that interface with flash memory and controller.	81
DQ1	Input/Output	Data bus that interface with flash memory and controller.	83
DQ2	Input/Output	Data bus that interface with flash memory and controller.	86
DQ3	Input/Output	Data bus that interface with flash memory and controller.	89
DQ4	Input/Output	Data bus that interface with flash memory and controller.	93
DQ5	Input/Output	Data bus that interface with flash memory and controller.	95
DQ6	Input/Output	Data bus that interface with flash memory and controller.	98
DQ7	Input/Output	Data bus that interface with flash memory and controller.	100
DQ8	Input/Output	Data bus that interface with flash memory and controller.	82
DQ9	Input/Output	Data bus that interface with flash memory and controller.	85
DQ10	Input/Output	Data bus that interface with flash memory and controller.	87
DQ11	Input/Output	Data bus that interface with flash memory and controller.	90
DQ12	Input/Output	Data bus that interface with flash memory and controller.	94
DQ13	Input/Output	Data bus that interface with flash memory and controller.	97
DQ14	Input/Output	Data bus that interface with flash memory and controller.	99
DQ15	Input/Output	Data bus that interface with flash memory and controller.	1

Notes:

- (1) These pins are internally connected within the package. That is why they should be left unconnected.
- (2) BYTE# should be connected to VCC.
- (3) A20 (pin 36) and RY/BY# (pin 37) should be floating in EPC16.