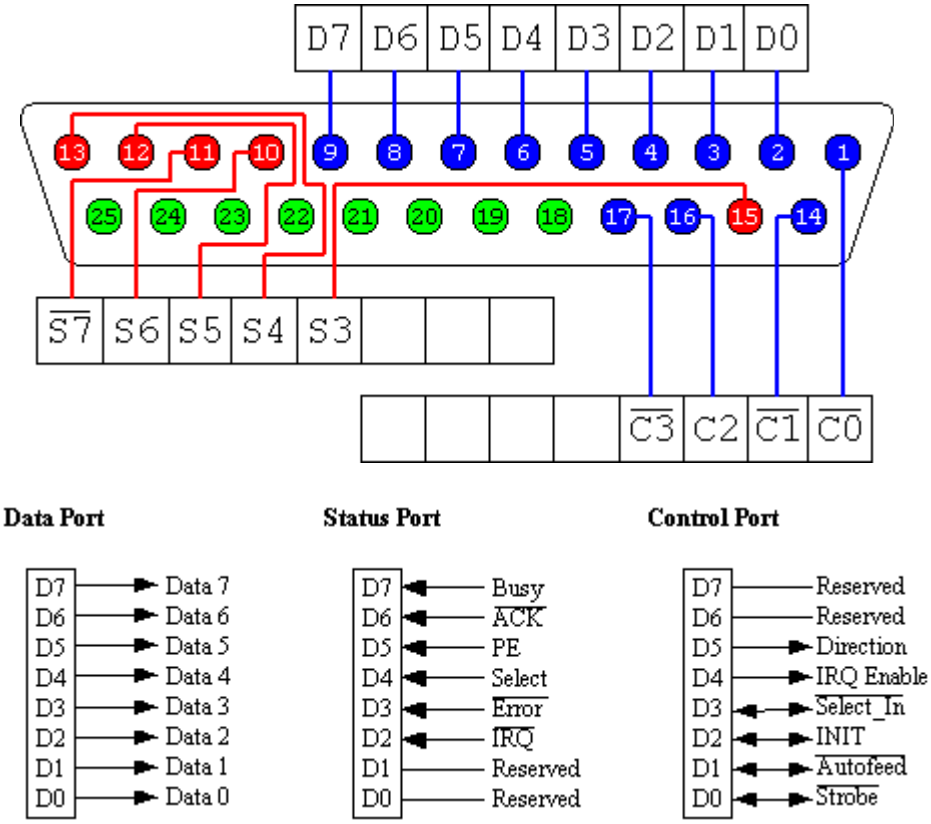
Appendix (A):-LPT Port Interface Description

On this webpage you will find some information on how to use the computer printer port (LPT) for interface to hardware.



IO Pins definition:

- 8 output pins accessed via the DATA Port
- 5 input pins (one inverted) accessed via the STATUS Port
- 4 input / output pins (three inverted) accessed via the CONTROL Port

Port address registers:

Printer	Data Port	Status	Control
LPT1	0x03bc	0x03bd	0x03be
LPT2	0x0378	0x0379	0x037a
LPT3	0x0278	0x0279	0x027a

Port pin layout:

D	Description	Name	Pin	Pin	Name	Description	D
- I/O	Strobe	STROBE	1	14	AUTO FEED	Auto-Feed	- I/O
I/O	Data Bit 0	D0	2	15	ERROR	Error	I
I/O	Data Bit 1	D1	3	16	INIT	Init (Reset)	I/O
I/O	Data Bit 2	D2	4	17	SLCT IN	Select In	- I/O
I/O	Data Bit 3	D3	5	18	GND	Ground	/
I/O	Data Bit 4	D4	6	19	GND	Ground	/
I/O	Data Bit 5	D5	7	20	GND	Ground	/
I/O	Data Bit 6	D6	8	21	GND	Ground	/
I/O	Data Bit 7	D7	9	22	GND	Ground	/
I	Acknowledge	ACK	10	23	GND	Ground	/
-I	Busy	BUSY	11	24	GND	Ground	/
I	Paper End	PE	12	25	GND	Ground	/
I	Select Out	SLCT	13	S	GND	Chasis Ground	/

Signals

STROBE *(Strobe)* active low output
Notify the printer that data available on D0 o D7 are valid.

D0 - D7 *(Data Bus)* outputs Data byte send to the printer, output only in "compatible" mode and bi-directional in newer modes.

ACK *(Acknowledge)* active low input
Notify the computer that the printer is ready to receive the next data.

BUSY *(Busy)* active low input
Printer buffer full or printer busy, the computer must wait for this signal to get high again to continue sending data.

PE *(Paper End)* active high input
Printer out of paper.

SLCT *(Select Out)* active high input
Printer ready (On-line).

AUTO-FEED *(Auto-Feed)* active high output
Printer Line feed.

ERROR :*(Error)* active low input Error detected by the printer.

INIT *(Reset)* active low output
Initialize the printer (reset).

SLCT IN *(Select In)* active low output
send an on-line request to the printer.