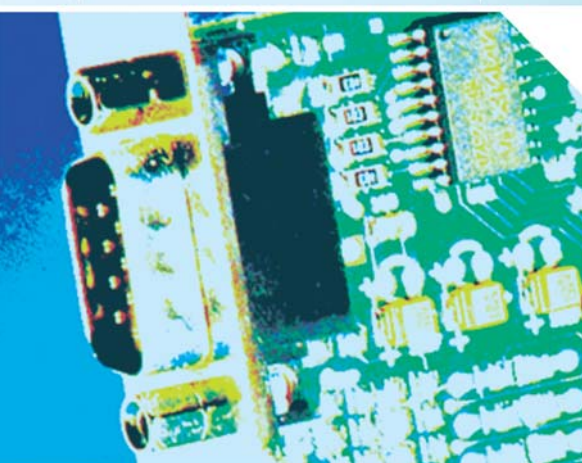




# UC-146, UC-157 UNIVERSAL LPT PORT

PARALLEL CARDS ENGINEERED TO EXCEED EXPECTATIONS



## Features

- 1 LPT Port
- Universal PCI
- Standard Profile or Low Profile Option
- Drivers for all popular operating systems
- 64 bit Microsoft Signed drivers for Windows XP and Windows Server 2003
- Lifetime Support and Lifetime Warranty

Click on each feature to find similar products

## Options



Low Profile: UC-157

Standard Profile:  
UC-146



## Description

Universal card provides an industry standard 25 pin LPT port.

Available as standard profile or low profile card. Low Profile is the industry standard small form factor design for PCI.

Universal PCI is fully compatible with both 3.3Volt and 5Volt PCI slots; protecting your investment into the future.

Now with Brainboxes Lifetime Warranty and Lifetime Support!

## Software

Microsoft signed drivers (easy installation & robust operation) for:

- o Windows Server 2003 x32 bit & x64 bit Editions
- o Windows XP x32 bit & x64 bit Editions
- o Windows 2000.



Fully tested drivers also included for:

- o Windows Me, Windows 98 & 95, Windows NT.

As well as: full product documentation, a thorough troubleshooting guide and terminal software.

Need support for other operating systems? Please telephone or email.



## ORDER

### Description

UNIVERSAL LPT PORT  
UNIVERSAL LOW PROFILE LPT PORT

### Code

UC-146  
UC-157



# UNIVERSAL LPT PORT

## Full Specification

### Product Code

UC-146 &amp; UC-157

### Printer Port

Pin No	Signal	Direction	Pin No	Signal	Direction
1	nStrobe	In/Out	10	nAck	In
2	Data 0	Out	11	Busy	In
3	Data 1	Out	12	Paper-Out / Paper-End	In
4	Data 2	Out	13	Select	In
5	Data 3	Out	14	nAuto-Linefeed	In/Out
6	Data 4	Out	15	nError / nFault	In
7	Data 5	Out	16	nInitialize	In/Out
8	Data 6	Out	17	nSelect-Printer / nSelect-In	In/Out
9	Data 7	Out	18-25	Ground	Gnd

LPT/Printer/Parallel Ports Connector


 1 LPT Port (SPP IEEE1284)  
 DB-25 (25 Pin Male)

### General

 Bracket Profile  
 PCB Layers  
 Power

 Weight  
 Size

 Standard Profile (UC-146) Low Profile (UC-157)  
 4  
 195mA @ 5V  
 15mA @ 12V  
 0.051Kg  
 64 x 122 mm

### Interface

 BUS Compatibility  
 OS Compatibility

PCI Compliance

 32/64 bit Universal (3.3V or 5V) PCI or PCI-X  
 Windows 98/ NT4/ 2000/ XP/ Server 2003  
 Windows XP x64 bit Edition / Windows Server 2003 x64 bit  
 Linux  
 Version 3.0

### Approvals & Accreditations



UL, EMC: CE, FCC, PCI Power Management 1.1 Compliant, PCI 3.0 Compliant

### Box Contents

 Installation CD including manual, Microsoft signed drivers, utilities and sample programs with source code  
 Universal PCI 2 Port RS232  
 Installation Guide

### OEM option

Available for bulk buy OEM

### Product Support

 Lifetime Email and Phone Support  
 from fully qualified, friendly staff 40 hours a week

### Warranty

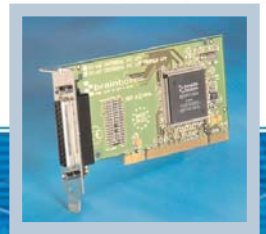
Lifetime

### Made In


 Manufactured in the UK by Brainboxes  
 Winner 2005 European Electronics Industry Awards  
 "Manufacturer of the Year"

### Customisable

 Brainboxes operate a "Perfect Fit Custom Design" policy for volume users More Info: [CLICK HERE](#)



## UNIVERSAL LPT PORT

### Product Features Explained

#### Universal PCI

Universal products allow compatibility with both 3.3 Volt and 5 Volt PCI systems. This ensures that Brainboxes universal card range is backward compatible with older systems and works with all new PCI systems.

More info on 'Universal' products: [Click Here](#)

#### Low Profile

Low-Profile PCI is a new PCI card standard for space-constrained system designs. The new form factors maintain the same electricals, PC signals and software drivers as standard PCI v3.0 expansion cards. They are also mechanically similar; however, Low-Profile PCI is an additional form factor that defines a shorter raw card and new mounting bracket for card retention.

#### PCI Compliant

All Brainboxes Universal PCI cards are fully PCI version 3.0 compliant, in accordance with the PCI-Special Interest Group (PCI-SIG).

#### 4 Layer PCB

Printed Circuit Board with 4 layers of circuitry complies with the PCI SIG best practice guideline and ensures a more reliable card. 1 layer is for power and 1 for ground which leads to greater EMC shielding for the signals. This ultimately gives greater signal integrity.

#### Surface Mount Components

Most components on a Brainboxes card are placed by a surface mount machine. The surface mount machine allows for highly accurate and fast production of Brainboxes cards. Orders can be met quickly, reliably and with outstanding quality.

#### Capacitors

As required by the PCI-SIG all Brainboxes cards have capacitors connected to all the power pins on the PCI connector, near to the connector. This ensures that the electrical power rails on the Brainboxes card stay at the right voltage, regardless of the power demands placed on them. This helps data signals keep their integrity.



## UNIVERSAL LPT PORT

### Brainboxes' Service

*"Brainboxes offers free lifetime support for ALL customers."*

We aim to provide industry leading support for our customers. Our highly trained and helpful support engineers sit and work closely with the product designers, developers, and testers to ensure an in-depth knowledge of the products. Support can be found by emailing [support@brainboxes.com](mailto:support@brainboxes.com) or calling: +44 (0)151 220 2500 during UK office hours.

Support website: [www.brainboxes.com/support/index.asp](http://www.brainboxes.com/support/index.asp)



*"Brainboxes' passionately believes in the quality of its manufacturing process and will reflect this by offering a Lifetime Warranty on ALL of its universal serial card range."*



Brainboxes is pleased to be able to extend a new Lifetime Warranty for all universal serial cards products. We have introduced this based on our exceptional manufacturing and design quality and the company ethos of kaizen.

### Brainboxes' Kaizen

*"Brainboxes constantly strives to achieve higher standards for the benefit of customers."*

'Kaizen' is a Japanese term meaning 'continuous improvement'. Kaizen has been implemented throughout Brainboxes, resulting in significant improvements to our products and our customer service, as illustrated by the development of our own custom ASIC "LYNX" and our new lifetime warranty. As part of this ongoing process, in 2004 we embarked on 'Lean' and '6 Sigma' programs which are successfully increasing productivity and efficiency in all areas of the company. **More Info:** [Click Here](#)

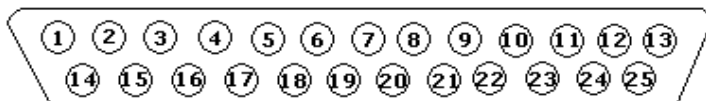


### Brainboxes' LYNX

We developed the Brainboxes LYNX (BB16PCI958) to enable us to drive product performance, and supply customer needs for Universal PCI products (3.3V and 5V compatible). By reducing the part count and incorporating several components into one chip (FIFO, UARTs, PCI interface), we have also increased board reliability. The LYNX also features thorough backwards compatibility with legacy systems, tested beyond the databook for compatibility with standard TL16C550, 750 UARTs. The chip is designed so that Brainboxes products will work with all applications designed for TI UARTs. **More Info:** [Click Here](#)

### LPT/Parallel Port Standard

As well as for use with a printer, the Parallel Port can be used for interfacing TTL logic level data devices. The port is composed of 4 control lines, 5 status lines and 8 data lines.



Pin No	Signal	Direction In/out	Pin No	Signal	Direction In/out
1	nStrobe	In/Out	10	nAck	In
2	Data 0	Out	11	Busy	In
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