



Quick Start Guide for Mainpine IQ Express™ Products

Part Nos. RF5118, RF5120, RF5122, RF5124

Using this guide

This guide applies to the following Mainpine products:

Mainpine IQ Express™ 1-Port	SP/LP	P/N: RF5118
Mainpine IQ Express™ 2-Port	SP/LP	P/N: RF5120
Mainpine IQ Express™ 4-Port	SP/LP	P/N: RF5122
Mainpine IQ Express™ 8-Port	SP/LP	P/N: RF5124

Package contents

- 1 x Quickstart Guide
- 1 x Low Profile Bracket
- 1 x Product CD-ROM

and either:

- IQ Express™ 1-Port SP
1 x RJ11-RJ11 cable, or
- IQ Express™ 2-Port SP
2 x RJ11-RJ11 cables, or
- IQ Express™ 4-Port SP
2 x RJ14-RJ11 'Y' cables, or
- IQ Express™ 8-Port SP
2 x RJ61-RJ11 'Y' cables

Physical description

The IQ Express boards are multiport analog interface boards for use inside PC equipment in Fax applications. The board will fit into any free PCI Express x1, x4, x8, or x16 slot, and is fully compatible with the short, long, low-profile, and standard-profile form factors.

This guide should be used in conjunction with the user documentation on the supplied Product CD-ROM.

Before you begin

- Read this guide thoroughly. Refer to the Regulatory Notice document that contains important safety warnings and national or international requirements for proper installation of this product. This document can be found on the Product CD-ROM, filename "REGNOT.PDF" in the Documentation folder.
- Familiarise yourself with instructions in the user manual, and installation procedures from your PC documentation.
- Prepare your work area, and make sure you have the appropriate tools, referring to your PC documentation prior to removing the board from its packaging.

CAUTION

Static sensitive device!

Computer components are sensitive to electrostatic discharges. Make sure you follow appropriate precautions when handling this board. See user manual for more information.

Risk of electric shock

Always make sure equipment is powered down and disconnected before attempting installation of this product or otherwise opening covers.

Hardware installation

A. Mounting bracket

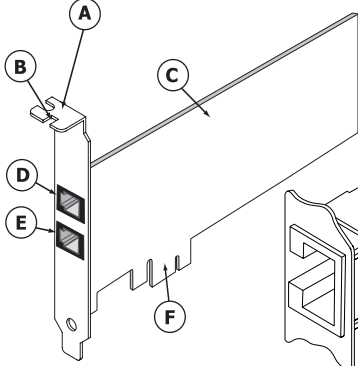
B. Mounting bracket screw point

C. Base board

D. Connector for cable to telephone sockets. Ports 1,3,5,7

E. Connector for cable to telephone sockets. Ports 2,4,6,8

F. PCI Express connector



Pin 1

Pin 2 (1)

Pin 3 (2)

Pin 4 (3)

Pin 5 (4)

Pin 6 (5)

Pin 7 (6)

Pin 8

1 & 2-Port RJ11

4-Port RJ14

8-Port RJ61

-

-

-

Ring 1

Tip 1

-

-

-

Tip 2

Ring 1

Tip 1

Ring 2

-

-

Ring 4

**IQ Express™ fitted with
Standard Profile Bracket**

Connector pinout

1.

Refer to your system documentation for information on removing covers and installing boards throughout the procedure.
2.

Make sure the system is switched off and all cables are safely disconnected. Make a note of where cables are connected for reconnection later.
3.

Remove the system cover.
4.

Select any available PCI Express slot. Remove the slot cover, and keep the screw for step 8.
5.

Carefully remove the IQ Express™ board from the packaging, ensuring antistatic procedures are observed. Hold the board only by the edges or mounting bracket, being careful to avoid touching the PCI Express connector.
6.

Keeping the board aligned with the PCI Express slot, gently and firmly insert the PCI Express connector on the board into the PCI Express expansion slot in your system.
7.

Ensure that the mounting bracket is flush with the case, and that the PCI Express connector is fully inserted and level.
8.

Using the screw from the slot cover, fasten the mounting bracket to the case.
9.

Replace the PC case and reconnect all cables.
10.

Connect the provided cables between the connectors on the board and the telephone sockets.

Software installation

CD-ROM installation

After installing the IQ Express board, restore system power. During the initial “power on self test” the motherboard BIOS may display a list of installed devices with the IQ Express identified as a “simple communications controller”. Wait until the operating system has completed booting, and then log on as a superuser with administrator rights (i.e. “Administrator” on Windows, or “root” on Linux).

For users of Windows XP, Windows Vista, Windows Server 2003, or Windows Server 2008:

You will be presented with a “Found New Hardware” dialogue which will guide you through the process of installing the drivers as follows:

- Insert the CD-ROM that came in the IQ Express packaging into the system CD or DVD drive.
- Follow the dialogue instructions, directing it to use the drivers from the CD or DVD drive.

When finished, use ‘Query Modem’ to test each modem port in turn (Start -> Control Panel -> Phone and Modem Options -> Modems -> IQ Express Port # -> Properties -> Diagnostics -> Query Modem).

For users of Linux operating systems:

- From the command prompt enter ‘lspci’ and note the slot identification tag associated with the installed “MainPine Ltd IOBus Bridge”. (For example, 06:01.0)
- From the command prompt enter ‘dmesg | grep 06:01.0’ using the noted slot identification tag instead of the example. The output should show one ttyS device per modem port. If it does, then no further installation work is necessary.

If the output shows some, but not all modem ports, then put “8250.nr_uarts=16” (where “16” is at least 2 more than the number of Mainpine ports on the system) at the end of the kernel line in the /etc/grub.conf file (or the analogous file) and reboot the system.

If the output does not show any modem ports then update to Linux kernel 2.6.24 or newer and reboot.



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