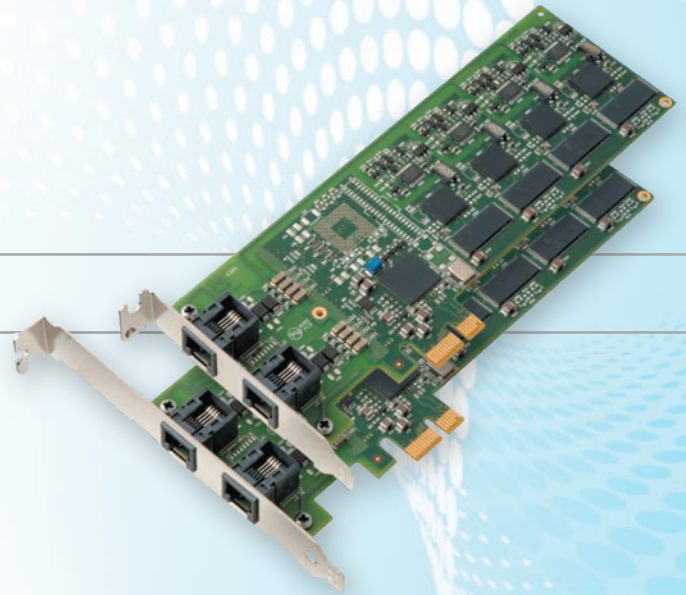# MAINPINE
fax. simplified.

IQ Express™

Intelligent PCI-Express Fax Board

The IQ Express™ intelligent fax board provides customers with the speed, reliability and performance of enterprise-class fax hardware at an exceptional price-to-performace guarantee.

In an ultra-small low profile design, these 1, 2, 4 and 8-line PCI-Express analog fax boards are ideal for space constrained environments.

Speed. Performance. Reliability

The IQ Express™ supports the most advanced fax standards in the industry. The V.34 fax standard allows the board to fax at speeds up to 33600 bps. In actual use this commonly doubles fax throughput per port over V.17 (14400 bps). Error Correction Mode (ECM) allows the fax to intelligently cope with many types of occasional line problems and interference to deliver perfect image quality. SSL Fax harnesses internet speeds within traditional fax operations, making fax lightening fast.

These features are delivered by the advanced power of the IQ Express™ and IQFSP software. While other intelligent fax boards share a Controller (CPU) and Digital Signal Processor (DSP) between multiple ports, each port of the IQ Express™ has a dedicated CPU and DSP. This innovative design provides superior levels of speed, performance and reliability. and reliability.

Innovative Design for Space Constrained Environments

The IQ Express™ is the only low-profile short-format intelligent fax board in the industry. The IQ Express™ fax board ships with a standard-profile bracket attached; a low profile bracket is included in the package at no extra cost. This allows the IQ Express™ to be installed in today's new 1U racks and slimline desktop systems.

Delivering more board features in less space, the IQ Express is only 6.6 inches in length and requires 50% less space than other intelligent fax board options.

Cantata (Brooktrout) TR1034™ (12.37" x 4.22")

IQ Express™ (6.60" x 2.53")

Feature Highlights

- **Super High-Speed Fax**
  Supports up to V.34 (33600 BPS) fax speed

- **Error Correction Mode (ECM)**
  Helps faxes negotiate through many kinds of problematic line conditions and interference

- **Dedicated Processing Power Per Port**
  Dedicated CPU & DSP per port

- **True Internet Fax Support - SSL Fax**
  Combined with Mainpine's IQFSP software, the IQ Express supports SSL Fax, delivering fax at the speed of the internet.

- **Wide Range of Applications Supported**
  Supports Fax Class 1, 1.0, and Microsoft Fax API for compatibility with a wide range of applications

- **Supports All PCI-Express Expansion Slots**
  PCI-Express 2.5Gbps Single Lane (x1) Link supports all x1, x4, x8 and x16 PCI-Express slots

- **Full Scalability**
  Unlimited number of 1, 2, 4 or 8 line boards can be placed in a single server

- **Microsoft™ Fax Compatible**
  Mainpine Fax Service Provider (IQFSP) software adds high-speed fax, SSL Fax, and ECM to Microsoft Fax

- **Environmentally Friendly Product**
  RoHS/WEEE certified device that exceeds worldwide environmental standards

- **Peace of Mind**
  30-day satisfaction guarantee, 5-year hardware warranty and free tech support

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Wide Range of Applications Supported

The IQ Express™ supports the Fax Class 1, 1.0, and Microsoft™ Fax API standards, allowing the board to support a wide range of applications. Since these are fully documented standards, application vendors are not required to support proprietary APIs as they would with similar intelligent fax boards.

Full PCI-Express Compatibility

IQ Express™ intelligent fax boards include a PCI-Express 2.5Gbps Single Lane (x1) Link that supports all x1, x4, x8 and x16 PCI-Express slots. This x1 link, along with the short height and length of the board, means that the 1, 2, 4 and 8-line versions of the IQ Express™ can all fit into any PCI-Express slot.

Scalable

Select the number of intelligent IQ Express™ Fax boards to meet today's messaging needs. As demand grows, simply add more boards to your system to support additional analog phone lines. Any number or combination of IQ Express boards may be operated concurrently.

Microsoft Fax Compatible

Most versions of Microsoft Windows™ are pre-installed with free fax server software. Purchasing the IQ Express™ gives you the Mainpine Fax Service Provider (IQFSP) software which supercharges your Microsoft™ Fax Server and supports many advanced features. This includes high-speed fax, ECM and detailed transaction logging. Microsoft Fax supports any application that has the ability to print. This includes the complete Microsoft™ Office suite.

SSL Fax

Fax communications need not be constrained to traditional fax speeds. When used with Mainpine IQFSP, HylaFAX+, or other applications which support SSL Fax, fax communications with other endpoints which support SSL Fax can go at the speed of the internet, limiting errors caused by poor phone line audio quality, which greatly reduces time spent in the fax communication.

Environmentally Friendly

The IQ Express™ is built and packaged with environmentally friendly components and materials. The IQ Express™ is a RoHS/WEEE certified device that exceeds all worldwide environmental standards.

Mainpine IQ Express™ Technical Specification

Fax

- ITU-T V.34 (Super G3), V.17, V.29, V.27 ter, V.21 ch.2, and V.8 Call Establishment
- ITU-T T.30, T.31 (Service Class 1/1.0)
- ECM Error Correction Mode
- MH, MR, MMR, JBIG, and JPEG Compression
- Normal, Fine, Superfine, Hyperfine, Ultrafine and Additional Resolutions up to 1200dpi

Caller ID

- Type-1 (on-hook) / Type-2 (off-hook)
- US, UK, ETSI, and DTMF

Hardware

- Dedicated CPU and DSP per port
- Global DAA
- Software readable 64-bit serial number
- Single interrupt per board
- Power consumption: Less than 1 Watt
- Mix-and-match Rockforce™, IQ Express™ and Third-party hardware

Physical Interface

- POTS: 1 line / 1 x RJ11; 2 lines / 2 x RJ11; 4 lines / 2 x RJ14; 8 lines / 2 x RJ61
- PCI-Express: x1 Link, dual-simplex, 2.5Gbps

Physical Description

- 6.60 x 3.12 inches (Low Profile Bracket)
- 6.60 x 4.72 inches (Standard Profile Bracket)

Environmental

- Operating temperature: 32F - 122F
- Storage temperature: -4F - 185F
- Relative humidity: 10% - 80%
- Non-condensing altitude: 0 - 12,000 feet

Operating Systems

- Windows XP[1], Vista[1], 7[1], 8[1], 10[1], and 11[1] both 32-bit and 64-bit versions
- Windows Server 2003[2] and Server 2008[2] both 32-bit and 64-bit versions
- Windows Server 2012[3], Server 2016[3], Server 2019[3], and Server 2022[3] both 32-bit and 64-bit versions
- Linux kernel 2.6.28 and newer 32/64-bit

Standards & Approvals

- Manufacturing: BS EN ISO 9001:2000
- Telecom: TIA 968-A (FCC Part 68), IC CS03, TS 103 021 (TBR21), 60+ countries pending
- EMC: FCC Part 15, ICES-003, EN 55022, EN 55024
- Safety: UL 60950, CSA 60950, EN 60950
- Environmental: EU 2002/95/EC ("RoHS"), EU 2002/96/EC ("WEEE"), EN 50419 - CE Mark
- PCI Express Base 1.1

Service and Warranty

- 30-day satisfaction guarantee
- 5-Year hardware warranty
- Free technical support

IQ Express - Order Information*

- IQ Express 1-Line, RF6118
- IQ Express 2-Lines, RF6120
- IQ Express 4-Lines, RF6122
- IQ Express 8-Lines, RF6124

* All ship with Standard and Low Profile Brackets

About Mainpine™

Mainpine products have earned a reputation for speed, performance and reliability. As the world's smallest intelligent fax board, the IQ Express™ is a testament to the company's focus on developing platforms that outperform all other intelligent fax hardware solutions on the market today.

1 - Windows Fax Service on Windows desktop operating systems only supports one fax port.
2- Windows Fax Service on Windows Server "Standard" versions supports up to four fax ports. Windows Server "Enterprise" supports unlimied fax ports.
3- Windows Fax Service on Windows Server 2012 - 2022 supports unlimimited fax ports.