



FPR1202 Series

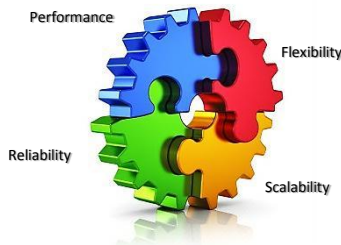
FIX Protocol Router Appliance



Deploying a **FIX Protocol Router** solution can significantly reduce both capital and operating expenditures associated with financial trading networks.

Take advantage of centralized FIX session management; dynamic load balancing coupled with High Availability (HA) operating modes providing flexible, reliable and scalable, low latency message routing.

The **FPR1202** FIX Protocol Router appliance is based on an industry standard 2U form factor, rack mount enclosure. The router's modular hardware platform supports a range of configuration options for flexible network deployments.



Rack mount 2U router appliance (*1)
with 4 router nodes installed

Key Features

- ❑ Supports FIX protocols 4.0 and higher.
- ❑ FIX protocol version configuration per session.
- ❑ 2048 inbound and outbound concurrent sessions.
- ❑ Inline message packet inspection / modification.
- ❑ FIX session consolidation, combine multiple inbound sessions into one outbound stream.
- ❑ Application (Layer-7) message routing using FIX header tags (i.e. SenderCompID).
- ❑ Dynamic Load Balancing of message flow.
- ❑ High Availability operating modes.
- ❑ Modular hot-swappable router node.
- ❑ High efficiency Redundant Power Supplies.
- ❑ Health status reporting via SNMP protocol.
- ❑ Industry standard rack mount 2U appliance.



System Specification

FIX Session (per node)

- 512 inbound and outbound concurrent sessions
- Routing 50,000 messages per second.

Ports (per node):

- 1x IPMI 2.0 port (KVM over LAN, Lights Out Management).
- 2x 1G (RJ45) ports (standard).
- 1Gbe/10Gbe port expansion options.
 - Option 1: x4 extra 1Gbe ports (RJ45).
 - Option 2: x2 extra 10Gbe ports (SPF+).

Drives (per node):

- 1x Solid State Drive (standard - 128GB)
- 2x SATA 3.5" Hard Drive bays (populated with one 3TB disk).

Chassis

- Industry standard 2U form factor, Rack mount.
- Height:** 3.47" (88mm) **Width :** 17.25" (438mm)
- Depth :** 28.5" (724mm) **Gross Weight:** 85lbs / 38.6 kg

System Cooling

- Fans: 4x 80mm PWM cooling fans.

Power Supply:

- 1400W high efficiently (1+1) redundant power supply.
- AC Inputs: 1100W output @ 100-140V, 13.5-9.5A 50-60Hz
- 1400W output @ 180-240V, 9.5-7.0A, 50-60Hz

Certification :



Operating Environment/Compliance

- RoHS compliant.
- Operating Temperature: 10°C to 35°C (50°F to 95°F).
- Non-operating Temperature -40°C to 70°C (-40°F to 158°F).
- Operating Relative Humidity 8% to 90% (non-condensing)
- Non-operating Relative Humidity 5% to 95% (non-condensing).

Deploying a FIX Protocol Router solution brings significant benefits to a trading network.

Here are just a few examples:

✓ Performance

Better utilization (increased capacity) of existing network infrastructure, by use of dynamic load balancing, reducing CapEx costs.

✓ Flexibility

Faster on-boarding of new clients using centralized session management, resulting in easier network administration and lower OpEx costs.

✓ Scalability

Increase future routing capacity by adding product options (in the field) using after-sale hardware and software licence upgrades.

✓ Reliability

Avoid trading session outages when network components fail by using High Availability strategies for provisioning alternate routing paths.

To learn more about our solutions please visit our website www.inceptrum.com

Email sales@inceptrum.com or call toll-free on **+1 877-763-6996**



171-300 Earl Grey Drive,
Kanata, Ontario.
Canada, K2T 1C1



Document No: **MZ1405-102** (B)

© Copyright 2014 - Inceptrum Technologies Inc. All rights reserved.

Inceptrum, the Inceptrum Technologies logo, and FPR1202, are trademarks or registered trademarks of Inceptrum Technologies Inc. in Canada and in other countries. All other trademarks are property of their respective owners. Inceptrum Technologies Inc., assumes no responsibility for any inaccuracies in this document. Inceptrum Technologies Inc., reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Footnote : *1) SUPERMICRO A+ Twin² Server hardware platform.