



# FPR2402 Series

## FIX Protocol Router Appliance

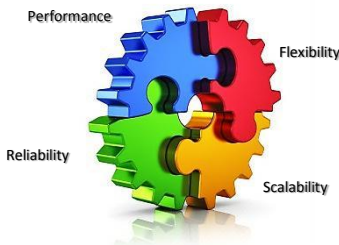


1U Rack mount (\*1)

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 **FPR2402** FIX Protocol Router appliance is based on an industry standard 1U form factor, rack mount enclosure. The router's modular hardware platform supports a range of configuration options for flexible network deployments.



### 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 1U appliance.



## System Specification

### FIX Session (per node)

- 2048 inbound and outbound concurrent sessions
- Routing 200,000 messages per second.

### Ports (per node):

1x IPMI 2.0 port (KVM over LAN, Lights Out Management).

2x 10Gbe (RJ45) ports (standard).

Port expansion options:

Option 1: x4 extra 10Gbe ports (RJ45).

Option 2: x4 extra 10Gbe ports (SPF+).

Option 3: x2 extra 40Gbe ports (QSPF+).

Option 4: x8 extra 10Gbe ports (RJ45).

Option 5: x8 extra 10Gbe ports (SPF+).

Option 6: x4 extra 40Gbe ports (QSPF+).

### Drives (per node):

1x Solid State Drive (standard - 128GB)

2x SATA 3.5" Hard Drive bays (populated with one 3TB disk).

### Chassis

Industry standard 1U form factor, Rack mount.

**Height:** 1.7" (43mm)    **Width:** 17.2" (437mm)

**Depth:** 25.6" (650mm)    **Gross Weight:** 36lbs / 18.1 kg

### System Cooling

Fans: 5x 40mm Counter-rotating PWM cooling fans.

### Power Supply:

700W/750W high efficiently (1+1) redundant power supply.

AC Inputs: 700W output @ 100-140V, 50-60Hz

750W output @ 180-240V, 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 ).

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Footnote: \*1) Supermicro server platform

## 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.inceptum.com](http://www.inceptum.com)

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