

## **ORESUND SERIES**

Datasheet: EFC402200 40Gb iSCSI to Fibre Channel Gateway



The EFC402200 40Gb iSCSI to Fibre Channel Gateway is a high performance protocol gateway for connecting iSCSI based Servers to Fibre Channel enabled peripherals such as Disks, Tape Drives, Tape Libraries and Optical devices.

The EFC402200 is housed in an industry standard 1U 19" rack mount enclosure with integral power supplies and cooling. Connectivity to the IP Network is via 2 autosensing 40Gb Ethernet ports, whilst the Fibre Channel Network is connected via 2 32Gb auto-sensing ports.

Managing and installing the EFC402200 could not be easier with its inbuilt intuitive GUI that is easy to use and provides the user with on screen help where necessary.



## **KEY ADVANTAGES**

**Total Flexibility** The need to have separate peripherals for both iSCSI and Fibre Channels SANs no longer applies when deploying the EFC402200. With the EFC402200, any Fibre Channel device can be accessed from the iSCSI SAN appearing as though it was part of the iSCSI SAN.

**Performance** The EFC402200 has many unique features to maximise performance and ensure your data is transferred to the peripheral devices in the shortest possible time. With its load balancing MPIO\* enabled Ethernet ports and two 32Gb Fibre Channel ports in combination with its unique non-blocking data cache module the EFC402200 provides industry leading performance.

**Recoverability** Ensuring that your data reaches its final destination is important these days with tight backup windows. With Error Recovery Level 2 support, the EFC402200 can continue to receive data even if one of the Ethernet connections is disconnected.

**Return on Investment** Maximising the return on any investment has always been critical. By using the EFC402200 to connect existing Fibre Channel devices to the iSCSI Network not only maximises your investment but also adds a new level of functionality and flexibility

## **PRODUCT FEATURES**

- 2 × 40Gb Ethernet Ports
- 2 × 32Gb Fibre Channel Ports
- Up to 16,000 Initiators
- Non-Blocking Cache
- Error Recovery Level 2

- iSNS
- Jumbo Packet Support
- Multipath I/O
- GUI Interface
- **U**K: +44 (0)1590 615444 | US: +1 888 238 1805
- http://4bridgeworks.com



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| Fibre Channel PortsConnectivity2 × 32Gb SFP NL_port, FL_port, N-portSpeedAuto sensing 4/8/16Gb/sMaximum Block Size1MbyteMaximum Initiators16,000StandardsC-PI-4, FC-FS-2, FC-FS-2/AM1, FC-LS, FC-AL-2, FC-GS-6, FC-FLA,<br>FC-PLDA, FC-TAPE, FC-DA, FCP through FCP-4, SBC-3, FC-SPEthernet PortsConnectionConnection2 × QSFPSpeed40Gb/sError RecoveryERL0, ERL1, ERL2Maximum Initiators16,000StandardsIPv4, iSCSI, iSNS, CHAP, DHCPVisual IndicatorsPower<br>Network Activity and Speed<br>Link Present<br>SCI Activity<br>Fibre Channel Link and ActivityPhysicalEnclosure Form FactorIgn Unit Dimensions19" 1U Rack Mount<br>DimensionsDimensions1.730 mm, W 424 1mm, H 42 0 mm   | KEY SPECIFICATIONS*         |   |  |
|--|-----------------------------|---|--|
| SpeedAuto sensing 4/8/16Gb/sMaximum Block Size1MbyteMaximum Initiators16,000StandardsFC-PI-4, FC-FS-2, FC-FS-2/AM1, FC-LS, FC-AL-2, FC-GS-6, FC-FLA,<br>FC-PLDA, FC-TAPE, FC-DA, FCP through FCP-4, SBC-3, FC-SPEthernet Ports2 × QSFPConnection2 × QSFPSpeed40Gb/sError RecoveryERL0, ERL1, ERL2Maximum Packet Size16KbMaximum Initiators16,000StandardsIPv4, iSCSI, iSNS, CHAP, DHCPVisual IndicatorsPower<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysical19" 1U Rack Mount  | Fibre Channel Ports         |   |  |
| Maximum Block Size1 MbyteMaximum Initiators16,000StandardsFC-PI-4, FC-FS-2, FC-FS-2/AM1, FC-LS, FC-AL-2, FC-GS-6, FC-FLA,<br>FC-PLDA, FC-TAPE, FC-DA, FCP through FCP-4, SBC-3, FC-SPEthernet PortsConnection2 × QSFPSpeed40Gb/sError RecoveryERL0, ERL1, ERL2Maximum Packet Size16KbMaximum Initiators16,000StandardsIPv4, ISCSI, ISNS, CHAP, DHCPVisual IndicatorsPower<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysical19" 1U Rack Mount   | Connectivity                | 2 × 32Gb SFP NL_port, FL_port, N-port                       |  |
| Maximum Initiators16,000StandardsFC-PI-4, FC-FS-2, FC-FS-2/AM1, FC-LS, FC-AL-2, FC-GS-6, FC-FLA,<br>FC-PLDA, FC-TAPE, FC-DA, FCP through FCP-4, SBC-3, FC-SPEthernet PortsConnection2 × QSFPSpeed40Gb/sError RecoveryERL0, ERL1, ERL2Maximum Packet Size16KbMaximum Initiators16,000StandardsIPv4, iSCSI, iSNS, CHAP, DHCPVisual IndicatorsPower<br>Network Activity and Speed<br>Link Present<br>SCI Activity<br>Fibre Channel Link and ActivityPhysical19" 1U Rack Mount   | Speed                       | Auto sensing 4/8/16Gb/s                                     |  |
| StandardsFC-PI-4, FC-FS-2, FC-FS-2/AM1, FC-LS, FC-AL-2, FC-GS-6, FC-FLA,<br>FC-PLDA, FC-TAPE, FC-DA, FCP through FCP-4, SBC-3, FC-SPEthernet PortsConnection2 × QSFPSpeed40Gb/sError RecoveryERL0, ERL1, ERL2Maximum Packet Size16KbMaximum Initiators16,000StandardsIPv4, ISCSI, ISNS, CHAP, DHCPVisual IndicatorsPower<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysicalI9" 1U Rack Mount  | Maximum Block Size          | 1Mbyte  |  |
| StandardsFC-PLDA, FC-TAPE, FC-DA, FCP through FCP-4, SBC-3, FC-SPEthernet PortsConnection2 × QSFPSpeed40Gb/sError RecoveryERL0, ERL1, ERL2Maximum Packet Size16KbMaximum Initiators16,000StandardsIPv4, iSCSI, iSNS, CHAP, DHCPVisual IndicatorsPower<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysicalIn the term of term of the term of term   | Maximum Initiators          | 16,000  |  |
| Connection2 × QSFPSpeed40Gb/sError RecoveryERL0, ERL1, ERL2Maximum Packet Size16KbMaximum Initiators16,000StandardsIPv4, iSCSI, iSNS, CHAP, DHCPVisual IndicatorsLED indicators forPower<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysical19" 1U Rack Mount  | Standards                   |   |  |
| Speed40Gb/sError RecoveryERL0, ERL1, ERL2Maximum Packet Size16KbMaximum Initiators16,000StandardsIPv4, iSCSI, iSNS, CHAP, DHCPVisual IndicatorsLED indicators forPower<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysicalI9" 1U Rack Mount  | Ethernet Ports              |   |  |
| Fror RecoveryERL0, ERL1, ERL2Maximum Packet Size16KbMaximum Initiators16,000StandardsIPv4, iSCSI, iSNS, CHAP, DHCPVisual IndicatorsPower<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysicalEnclosure Form Factor19" 1U Rack Mount   | Connection                  | 2 × QSFP  |  |
| Maximum Packet Size16KbMaximum Initiators16,000StandardsIPv4, iSCSI, iSNS, CHAP, DHCPVisual IndicatorsLED indicators forPower<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysical19" 1U Rack Mount   | Speed                       | 40Gb/s  |  |
| Maximum Initiators16,000StandardsIPv4, iSCSI, iSNS, CHAP, DHCPVisual IndicatorsLED indicators forPower<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysical19" 1U Rack Mount  | Error Recovery              | ERLO, ERL1, ERL2  |  |
| Standards IPv4, iSCSI, iSNS, CHAP, DHCP   Visual Indicators   LED indicators for Power<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and Activity   Physical Improve The Channel Link and Activity   Enclosure Form Factor 19" 1U Rack Mount  | Maximum Packet Size         | 16Kb  |  |
| Visual Indicators Power   LED indicators for Power   Network Activity and Speed Link Present   SCSI Activity Fibre Channel Link and Activity   Physical 19" 1U Rack Mount  | Maximum Initiators          | 16,000  |  |
| LED indicators forPower<br>Network Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysicalImage: The second se | Standards                   | IPv4, iSCSI, iSNS, CHAP, DHCP                               |  |
| LED indicators forNetwork Activity and Speed<br>Link Present<br>SCSI Activity<br>Fibre Channel Link and ActivityPhysical19" 1U Rack Mount  | Visual Indicators           |   |  |
| Enclosure Form Factor 19" 1U Rack Mount  | LED indicators for          | Network Activity and Speed<br>Link Present<br>SCSI Activity |  |
|  | Physical                    |   |  |
| Dimensions I 730 mm W /3/ 1mm H /2 9 mm  | Enclosure Form Factor       | 19" 1U Rack Mount   |  |
|  | Dimensions                  | L 730 mm, W 434.1mm, H 42.9 mm                              |  |
| Operational Temperature 10 to 35°C   | Operational Temperature     | 10 to 35°C  |  |
| Non-Operational Temperature -20° to 60°  | Non-Operational Temperature | -20° to 60°   |  |
| Humidity 10–18% Non-condensing   | Humidity                    | 10–18% Non-condensing                                       |  |
| Voltage Range 90-264VAC 47-63Hz  | Voltage Range               | 90-264VAC 47-63Hz   |  |
| Power Consumption 350-Watts approx   | Power Consumption           | 350-Watts approx  |  |

\*Bridgeworks reserves the right to change these specification without notification



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