

# THE DELL FX100 REMOTE ACCESS DEVICE



The Dell™ FX100 Remote Access Device is a high-performance communication solution using PC-over-IP® technology enabling remote user access to the full performance of a host system. The Dell FX100 is the ideal partner for the Dell Precision™ R5400 Rack Workstation to provide a superb remote user experience.

## A NEW SOLUTION FOR SOME OLD CHALLENGES

The combination of the Dell FX100 and the Dell Precision R5400 Rack Workstation offers advanced, innovative, and relevant technologies to overcome some tough traditional challenges and succeeds where other solutions have struggled to deliver:

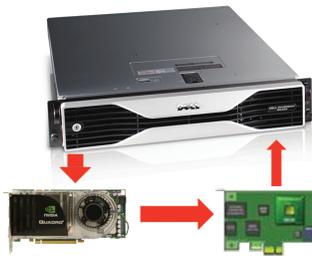
- Centralizing and accessing critical data and applications in a secure location
- Eliminating the need for workstation users to be in inhospitable or hazardous areas
- Enabling faster moves and changes as project teams are reassigned
- Retaining performance and other benefits of a standards-based workstation for remote users
- Addressing the distance limitations of traditional wired KVM solutions

## A TRUE WORKSTATION EXPERIENCE

Developed specifically for the purpose of enabling a best-in-class remote user experience, and drawing on the best imaging, silicon, and network techniques, the Dell FX100 provides support for host-based OpenGL® graphics, USB, and audio interaction at distances greater than traditional KVM limits. As a highly self-contained system communicating over industry standard IP networks, this solution operates in conjunction with any host operating system and software for a true desktop experience with demanding workstation applications.



### DELL PRECISION R5400 WORKSTATION



GRAPHICS CARD

REMOTE ACCESS CARD

### REMOTE USER (DELL FX100)



- USB
- KEYBOARD
- MOUSE
- AUDIO
- VIDEO

IP NETWORK

Image courtesy of SolidWorks

## WORLD-CLASS ARCHITECTURE FOR WORLD-CLASS PERFORMANCE

The Dell FX100 consists of a PCIe remote access host card housed in the host R5400 workstation and a remote portal device connected to the PCIe host card via standard networking. Communication is accomplished using the world-class PC-over-IP® protocol, which can have many advantages. It is operating system and application agnostic, delivers the full capability of the graphics card housed in the host workstation, and offers full support for USB and audio. Using advanced compression algorithms and dedicated hardware acceleration to perform both encryption and compression, the FX100 delivers an outstanding remote user experience limited only by the network infrastructure. The portal device is a low power consuming, fanless, driverless, and stateless device. The simplicity of this advanced approach eliminates the need to equip the remote user with a second client device (with second operating system, specialized drivers, graphics subsystem, etc.).

## FLEXIBLE COMPUTING FOR A CHANGING WORLD

The Dell FX100 is the ideal solution for workstation users who need to interact with their system when elsewhere on the network. Providing audio, multiple USB, and two DVI connections, the FX100 enables flexible configurations, including support for one or two screens. All interfaces are industry standard, ensuring all existing peripheral devices such as keyboard, mouse, printer, and headphones can be used. The Dell FX100 has been optimized for use with the Dell Precision™ R5400 Rack Workstation and includes remote user hardware support for powering up and down of the R5400 workstation and visibility to its boot process.

## PEACE OF MIND THROUGH ISV APPLICATION CERTIFICATION

Use of the Dell FX100 remote access solution does not impact R5400 ISV application certification at all. Dell partners with leading ISVs to certify system and application compatibility to ensure optimized performance in demanding workstation environments. By maintaining strong relationships with ISV application developers, Dell engineers can provide ongoing optimization and support, should you need it.

FEATURES	DELL FX100 REMOTE ACCESS DEVICE
<b>Remote Access Host Card</b>	PCIe x1 card for host workstation 2 DVI-I ports 1 RJ45 jack for 10/100/1000 Mbps Ethernet
<b>Portal Device</b>	<ul style="list-style-type: none"> <li>Remote power button (controls workstation host)</li> <li>Disconnect button (disconnects portal and host card)</li> <li>Built to run on standard 10/100/1000 BaseT Ethernet networks</li> <li>Allows true, transparent USB bridging over IP networks</li> <li>Same plug-and-play experience as local workstation</li> <li>Provides flexible user authorization by allowing USB port disabling or filtering by device type or user profile</li> <li>On-board audio controller connects to standard audio codecs</li> <li>Requires supplied codec for Windows® XP</li> <li>Operates in conjunction with any operating system and application</li> <li>No modification or additional host drivers required</li> <li>Management and media communication protected by secure SSL and IPSec</li> </ul>
<b>Video</b>	2 DVI-I ports with one DVI-I to VGA (DB-15) adapter supplied Video Control Display Data Control (DDC) for automatic setting of resolution and refresh rate
<b>Video Resolution</b>	Single DVI at 1920x1200 Dual DVI at 1600x1200
<b>I/O Ports</b>	4 USB 1.1 connectors – 2 front, 2 rear 1 audio mic-in jack – front 1 audio headphone out jack – front 1 audio line-out jack – rear 1 RJ45 jack for 10/100/1000 Mbps Ethernet
<b>Portal Dimensions</b>	Height 9.13" (232 mm) Width 3.7" (94mm) Length 6.85" (174 mm) Kensington® Lock port
<b>Environmental</b>	Environmental with humidity and temperature range: Operating: 0 to 35 (degrees C) 5% - 85%RH Storage: -40 to 60 (degrees C) 5% - 95%RH Air Flow: Natural convection – top down with side vents BTU/hr: At nominal 15W AC power operation -52 BTU At full 25W AC power operation -85 BTU Sound Level (db): 0 db – fanless with no moving parts
<b>Power Consumption</b>	12v DC 30 watts or less Current at 115V: 150mA (nominal) 10W (0.8A) DC nominal – using a 36W AC/DC adapter Current at 200V: 75mA (nominal) 2.5mm inside diameter and 6.5mm outside diameter 1 DC-in jack External power adapter with worldwide autosensing 100-240v VAC, 50/60 Hz support.
<b>Environmental &amp; Regulatory</b>	<p>You can find additional Safety Best Practices information on the Regulatory Compliance Homepage on <a href="http://www.dell.com">www.dell.com</a> at the following location: <a href="http://www.dell.com/regulatory_compliance">www.dell.com/regulatory_compliance</a>.</p> <p>Base 3-Year Limited Warranty<sup>1</sup> with 3 years standard Next Business Day (NBD) On-Site Service<sup>2</sup></p> <p>Recommended Dell ProSupport is designed to rapidly respond to your business' needs, protect your investment and sensitive data, and provide enhanced proactive support services to help reduce risk and complexity within your IT environment.</p>

Dell's Terms and Conditions of Sales and Service apply and are available upon request. Dell cannot be held responsible for errors in typography or photography.

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<sup>2</sup> May be provided by third-party. Technician dispatched, if necessary, following phone-based troubleshooting. Availability varies. See [dell.com/servicecontracts](http://dell.com/servicecontracts) for details.

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