



Datasheet

LUCI-10

USB to D-Sub Control Interface for FEMTO Amplifiers



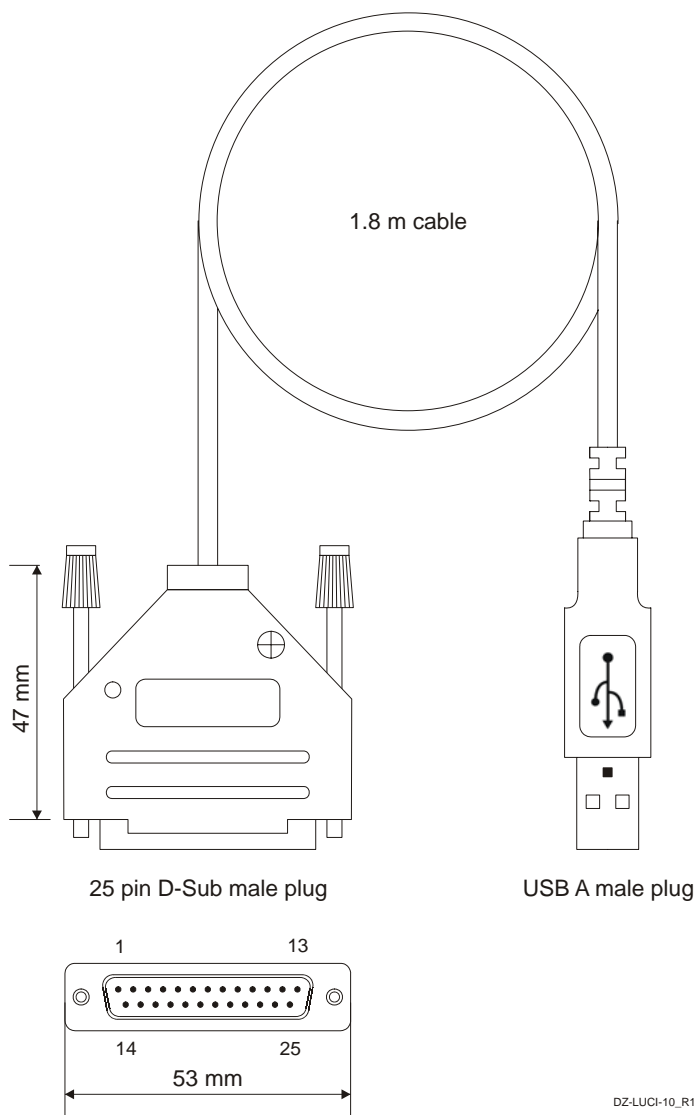
Features	<ul style="list-style-type: none"> • Compact Digital I/O Interface for USB Remote Control of FEMTO Amplifiers • Supports Opto-Isolation of Amplifier Signal Path from PC USB Port • 16 Digital Outputs, 3 Opto-Isolated Digital Inputs • Bus-Powered Operation • System Driver, Application Software and VI's for use with LabVIEW™ Included 																											
Applications	<ul style="list-style-type: none"> • Remote Control of FEMTO® Amplifiers and Photoreceivers Directly from a PC 																											
Block Diagram	<p style="text-align: right; font-size: small;">BS-LUCI-10_R1</p>																											
Hardware Specifications	<table border="0"> <tr> <td data-bbox="259 1617 470 1648">General Characteristics</td> <td data-bbox="535 1617 730 1648">Bus Interface</td> <td data-bbox="844 1617 1055 1648">USB 2.0 (full-speed)</td> </tr> <tr> <td></td> <td data-bbox="535 1648 730 1680">Digital I/O Channels</td> <td data-bbox="844 1648 1055 1680">16 output lines 3 opto-isolated input lines</td> </tr> <tr> <td></td> <td data-bbox="535 1701 617 1732">Supply</td> <td data-bbox="844 1701 1299 1764">PC USB port, + 5 V, typ. 100 mA, bus-powered (no auxiliary power supply required)</td> </tr> <tr> <td></td> <td data-bbox="535 1764 649 1795">Connectors</td> <td data-bbox="844 1764 974 1795">USB type A D-Sub, 25 pin, male</td> </tr> <tr> <td></td> <td data-bbox="535 1816 600 1848">Cable</td> <td data-bbox="844 1816 1055 1848">AWG 28, length 1.8 m</td> </tr> <tr> <td data-bbox="259 1869 324 1900">Output</td> <td data-bbox="535 1869 730 1900">Number of Channels</td> <td data-bbox="844 1869 1380 1932">16 output lines, supporting opto-isolation inside FEMTO amplifiers and photoreceivers</td> </tr> <tr> <td></td> <td data-bbox="535 1932 730 1963">Output Voltage Range</td> <td data-bbox="844 1932 1380 1984">LOW bit: 0 ... + 0.5 V (@ 0 ... 2 mA output current) HIGH bit: + 4 ... + 5.5 V (@ 0 ... 2 mA output current)</td> </tr> <tr> <td></td> <td data-bbox="535 1984 730 2016">Max. Current</td> <td data-bbox="844 1984 1055 2016">6 mA per channel</td> </tr> <tr> <td></td> <td data-bbox="535 2016 730 2047">Writing Rate</td> <td data-bbox="844 2016 1136 2047">max. 800 operations per second</td> </tr> </table>	General Characteristics	Bus Interface	USB 2.0 (full-speed)		Digital I/O Channels	16 output lines 3 opto-isolated input lines		Supply	PC USB port, + 5 V, typ. 100 mA, bus-powered (no auxiliary power supply required)		Connectors	USB type A D-Sub, 25 pin, male		Cable	AWG 28, length 1.8 m	Output	Number of Channels	16 output lines, supporting opto-isolation inside FEMTO amplifiers and photoreceivers		Output Voltage Range	LOW bit: 0 ... + 0.5 V (@ 0 ... 2 mA output current) HIGH bit: + 4 ... + 5.5 V (@ 0 ... 2 mA output current)		Max. Current	6 mA per channel		Writing Rate	max. 800 operations per second
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<p>Software Specifications</p> <p>Software (included on CD)</p>	<p>Device Driver dynamic link library (DLL) for integration in Microsoft Windows® operating system for use with C/C++, LabWindows™ /CVI™ or LabVIEW™</p> <p>Application Software GUI (graphical user interface) programs for simple remote control of FEMTO amplifiers and photoreceivers provided as executable programs and LabVIEW projects</p> <p>LabVIEW Programs sample programs to control and test the LUCI-10 hardware (including front panel and block diagram)</p> <p>LabVIEW Library special VI toolkit for integration in LabVIEW development environment</p> <p>Note: A National Instruments LabVIEW™ license is not included in this software package. For use of the GUI application programs the LabVIEW Run-Time Engine is required. If not detected on the host PC during the installation process the LabVIEW Run-Time Engine will be installed automatically from the CD.</p>
<p>System Requirements</p>	<p>Operating System Microsoft Windows XP with Service Pack 2, or higher</p> <p>Processor Intel Pentium III or AMD Athlon, or better</p> <p>System Memory 512 MB of RAM, or more</p> <p>Hard Disk Space about 200 MB</p> <p>Interface Port USB 1.1 or USB 2.0</p> <p>Supported FEMTO Modules any standard FEMTO amplifier or photoreceiver with 25 pin D-Sub socket, except model HLVA-100</p>
<p>Optional Requirements</p>	<p>For development of own application programs an additional development environment like LabVIEW Version 8 (or higher) or C/C++ is required.</p>
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USB to D-Sub Control Interface for FEMTO Amplifiers

Dimensions



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