



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;">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 1995">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 1995 730 2047">Max. Current Writing Rate</td> <td data-bbox="844 1995 1380 2047">6 mA per channel max. 800 operations per second</td> </tr> </table> <p>SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX: 0755-83376182 E-MAIL: szss20@163.com</p>	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 Writing Rate	6 mA per channel max. 800 operations per second
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Software Specifications

Software
(included on CD)

Device Driver	dynamic link library (DLL) for integration in Microsoft Windows [®] operating system for use with C/C++, LabWindows [™] /CVI [™] or LabVIEW [™]
Application Software	GUI (graphical user interface) programs for simple remote control of FEMTO amplifiers and photoreceivers provided as executable programs and LabVIEW projects
LabVIEW Programs	sample programs to control and test the LUCI-10 hardware (including front panel and block diagram)
LabVIEW Library	special VI toolkit for integration in LabVIEW development environment

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.

System Requirements

Operating System	Microsoft Windows XP with Service Pack 2, or higher
Processor	Intel Pentium III or AMD Athlon, or better
System Memory	512 MB of RAM, or more
Hard Disk Space	about 200 MB
Interface Port	USB 1.1 or USB 2.0
Supported FEMTO Modules	any standard FEMTO amplifier or photoreceiver with 25 pin D-Sub socket, except model HLVA-100

Optional Requirements

For development of own application programs an additional development environment like LabVIEW Version 8 (or higher) or C/C++ is required.

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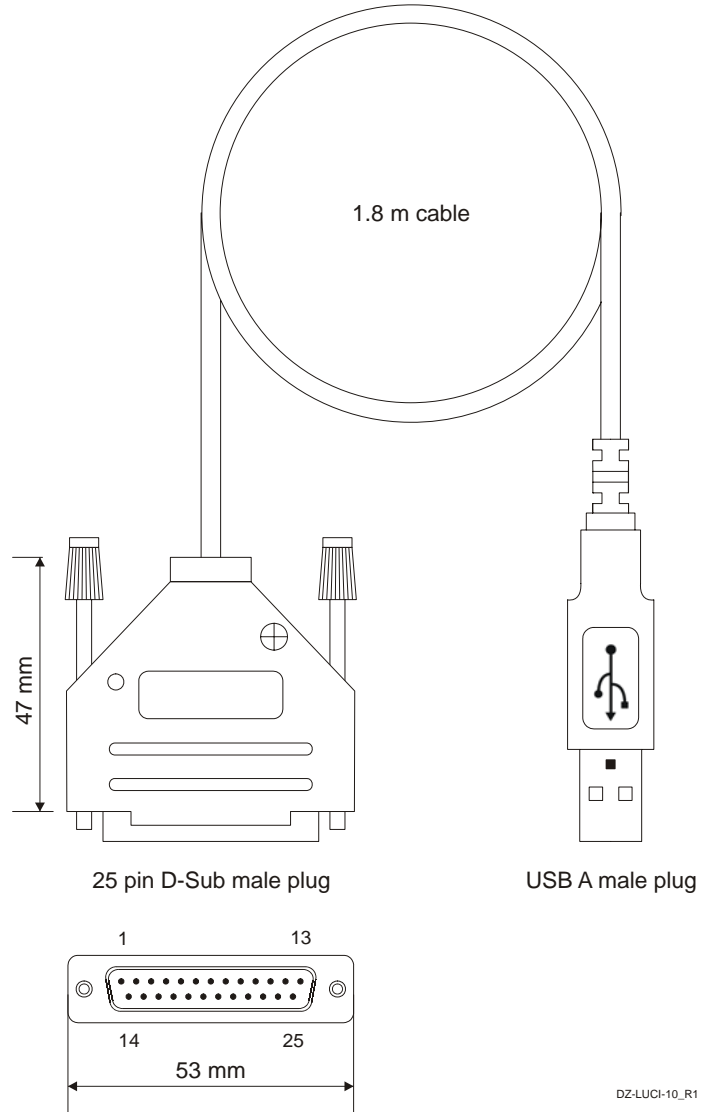
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USB to D-Sub Control Interface for FEMTO Amplifiers

Dimensions



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