

USB to D-Sub Control Interface for FEMTO Amplifiers



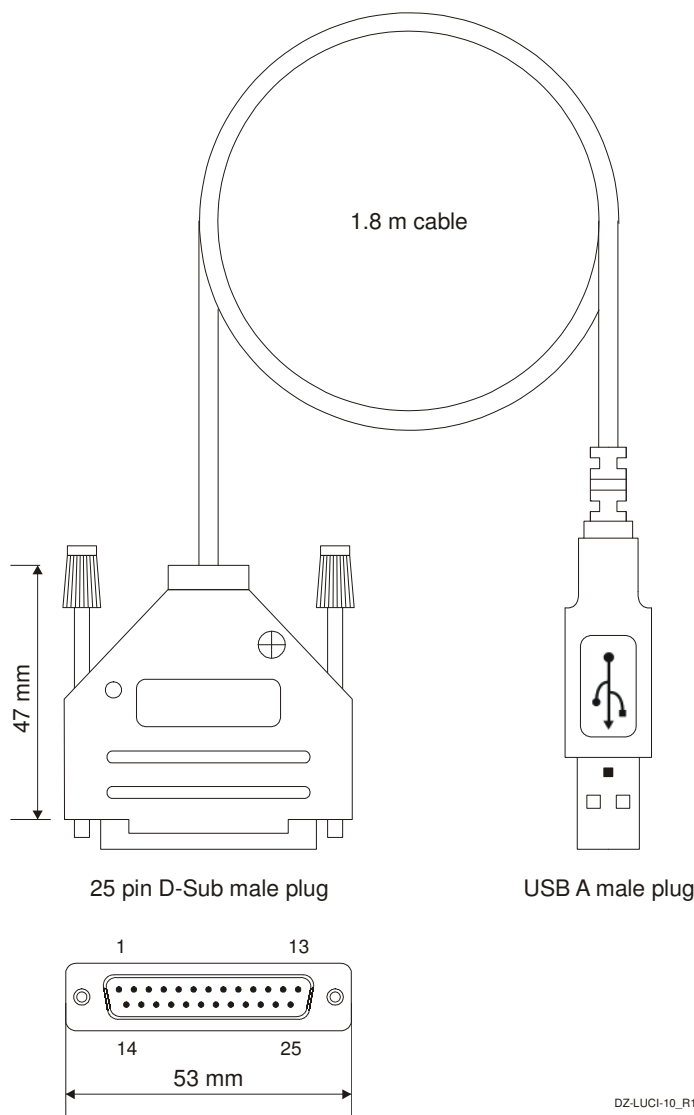
<p>Features</p>	<ul style="list-style-type: none"> • Compact digital I/O interface for USB remote control of FEMTO amplifiers • Supports opto-isolation of amplifier signal path from PC USB port • 16 digital outputs, 3 opto-isolated digital inputs • Bus-powered operation • System driver, application software and VI's for use with LabVIEW™ included 				
<p>Applications</p>	<ul style="list-style-type: none"> • Remote control of FEMTO® amplifiers and photoreceivers directly from a PC 				
<p>Block Diagram</p>	<p style="text-align: right; font-size: small;">BS-LUCI-10_R1</p>				
<p>Hardware Specifications</p> <p>General Characteristics</p> <p>Output</p>	<table border="0"> <tr> <td style="vertical-align: top;"> <p>Bus interface</p> <p>Digital I/O channels</p> <p>Supply</p> <p>Connectors</p> <p>Cable</p> </td> <td style="vertical-align: top;"> <p>USB 2.0 (full-speed)</p> <p>16 output lines 3 opto-isolated input lines</p> <p>PC USB port, +5 V, typ. 100 mA, bus-powered (no auxiliary power supply required)</p> <p>USB type A</p> <p>D-Sub, 25 pin, male</p> <p>AWG 28, length 1.8 m</p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>Number of channels</p> <p>Output voltage range</p> <p>Max. current</p> <p>Writing rate</p> </td> <td style="vertical-align: top;"> <p>16 output lines, supporting opto-isolation inside FEMTO amplifiers and photoreceivers</p> <p>LOW bit: 0 ... +0.5 V (@ 0 ... 2 mA output current)</p> <p>HIGH bit: +4 ... +5.5 V (@ 0 ... 2 mA output current)</p> <p>6 mA per channel</p> <p>max. 600 operations per second</p> </td> </tr> </table>	<p>Bus interface</p> <p>Digital I/O channels</p> <p>Supply</p> <p>Connectors</p> <p>Cable</p>	<p>USB 2.0 (full-speed)</p> <p>16 output lines 3 opto-isolated input lines</p> <p>PC USB port, +5 V, typ. 100 mA, bus-powered (no auxiliary power supply required)</p> <p>USB type A</p> <p>D-Sub, 25 pin, male</p> <p>AWG 28, length 1.8 m</p>	<p>Number of channels</p> <p>Output voltage range</p> <p>Max. current</p> <p>Writing rate</p>	<p>16 output lines, supporting opto-isolation inside FEMTO amplifiers and photoreceivers</p> <p>LOW bit: 0 ... +0.5 V (@ 0 ... 2 mA output current)</p> <p>HIGH bit: +4 ... +5.5 V (@ 0 ... 2 mA output current)</p> <p>6 mA per channel</p> <p>max. 600 operations per second</p>
<p>Bus interface</p> <p>Digital I/O channels</p> <p>Supply</p> <p>Connectors</p> <p>Cable</p>	<p>USB 2.0 (full-speed)</p> <p>16 output lines 3 opto-isolated input lines</p> <p>PC USB port, +5 V, typ. 100 mA, bus-powered (no auxiliary power supply required)</p> <p>USB type A</p> <p>D-Sub, 25 pin, male</p> <p>AWG 28, length 1.8 m</p>				
<p>Number of channels</p> <p>Output voltage range</p> <p>Max. current</p> <p>Writing rate</p>	<p>16 output lines, supporting opto-isolation inside FEMTO amplifiers and photoreceivers</p> <p>LOW bit: 0 ... +0.5 V (@ 0 ... 2 mA output current)</p> <p>HIGH bit: +4 ... +5.5 V (@ 0 ... 2 mA output current)</p> <p>6 mA per channel</p> <p>max. 600 operations per second</p>				

USB to D-Sub Control Interface for FEMTO Amplifiers

Software Specifications	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Software (included on CD)</td> <td style="padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Device driver</td> <td style="padding: 5px;">dynamic link library (DLL) for integration in Microsoft Windows® 32 bit & 64 bit operating system for use with C/C++, LabWindows™ /CVI™ or LabVIEW™</td> </tr> <tr> <td style="padding: 5px;">Application software</td> <td style="padding: 5px;">GUI (graphical user interface) programs for simple remote control of FEMTO amplifiers and photoreceivers provided as executable programs and LabVIEW projects</td> </tr> <tr> <td style="padding: 5px;">LabVIEW programs</td> <td style="padding: 5px;">sample programs to control and test the LUCI-10 hardware (including front panel and block diagram)</td> </tr> <tr> <td style="padding: 5px;">LabVIEW library</td> <td style="padding: 5px;">special VI toolkit for integration in LabVIEW 32 bit & 64 bit development environment</td> </tr> </table> <p style="margin-top: 10px;">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> </td> </tr> </table>	Software (included on CD)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Device driver</td> <td style="padding: 5px;">dynamic link library (DLL) for integration in Microsoft Windows® 32 bit & 64 bit operating system for use with C/C++, LabWindows™ /CVI™ or LabVIEW™</td> </tr> <tr> <td style="padding: 5px;">Application software</td> <td style="padding: 5px;">GUI (graphical user interface) programs for simple remote control of FEMTO amplifiers and photoreceivers provided as executable programs and LabVIEW projects</td> </tr> <tr> <td style="padding: 5px;">LabVIEW programs</td> <td style="padding: 5px;">sample programs to control and test the LUCI-10 hardware (including front panel and block diagram)</td> </tr> <tr> <td style="padding: 5px;">LabVIEW library</td> <td style="padding: 5px;">special VI toolkit for integration in LabVIEW 32 bit & 64 bit development environment</td> </tr> </table> <p style="margin-top: 10px;">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>	Device driver	dynamic link library (DLL) for integration in Microsoft Windows® 32 bit & 64 bit 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 32 bit & 64 bit development environment		
Software (included on CD)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Device driver</td> <td style="padding: 5px;">dynamic link library (DLL) for integration in Microsoft Windows® 32 bit & 64 bit operating system for use with C/C++, LabWindows™ /CVI™ or LabVIEW™</td> </tr> <tr> <td style="padding: 5px;">Application software</td> <td style="padding: 5px;">GUI (graphical user interface) programs for simple remote control of FEMTO amplifiers and photoreceivers provided as executable programs and LabVIEW projects</td> </tr> <tr> <td style="padding: 5px;">LabVIEW programs</td> <td style="padding: 5px;">sample programs to control and test the LUCI-10 hardware (including front panel and block diagram)</td> </tr> <tr> <td style="padding: 5px;">LabVIEW library</td> <td style="padding: 5px;">special VI toolkit for integration in LabVIEW 32 bit & 64 bit development environment</td> </tr> </table> <p style="margin-top: 10px;">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>	Device driver	dynamic link library (DLL) for integration in Microsoft Windows® 32 bit & 64 bit 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 32 bit & 64 bit development environment				
Device driver	dynamic link library (DLL) for integration in Microsoft Windows® 32 bit & 64 bit 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 32 bit & 64 bit development environment												
System Requirements	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Operating system</td> <td style="padding: 5px;">Microsoft Windows XP with Service Pack 3, or higher</td> </tr> <tr> <td style="padding: 5px;">Processor</td> <td style="padding: 5px;">Intel Pentium III or AMD Athlon, or better</td> </tr> <tr> <td style="padding: 5px;">System memory</td> <td style="padding: 5px;">1 GB of RAM, or more</td> </tr> <tr> <td style="padding: 5px;">Hard disk space</td> <td style="padding: 5px;">about 5 GB</td> </tr> <tr> <td style="padding: 5px;">Interface port</td> <td style="padding: 5px;">USB 1.1 or USB 2.0</td> </tr> <tr> <td style="padding: 5px;">Supported FEMTO modules</td> <td style="padding: 5px;">any standard FEMTO amplifier or photoreceiver with 25 pin D-Sub socket, except model HLVA-100</td> </tr> </table>	Operating system	Microsoft Windows XP with Service Pack 3, or higher	Processor	Intel Pentium III or AMD Athlon, or better	System memory	1 GB of RAM, or more	Hard disk space	about 5 GB	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
Operating system	Microsoft Windows XP with Service Pack 3, or higher												
Processor	Intel Pentium III or AMD Athlon, or better												
System memory	1 GB of RAM, or more												
Hard disk space	about 5 GB												
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	<p>For development of own application programs an additional development environment like LabVIEW Version 2012 (or higher) or C/C++ is required.</p>												
Legal Notice	<p>LabVIEW, CVI, National Instruments and NI are trademarks of National Instruments. Neither FEMTO Messtechnik GmbH, nor any software programs or other goods or services offered by FEMTO Messtechnik GmbH, are affiliated with, endorsed by, or sponsored by National Instruments.</p> <p>The mark LabWindows is used under a license from Microsoft Corporation.</p> <p>Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.</p> <p>FEMTO and the FEMTO logo are trademarks or registered trademarks of FEMTO Messtechnik GmbH in Germany, the U.S. and/or other countries.</p> <p>Product and company names mentioned may also be trademarks or trade names of their respective companies used here for identification purposes only.</p>												

USB to D-Sub Control Interface for FEMTO Amplifiers

Dimensions



FEMTO Messtechnik GmbH
Klosterstr. 64
10179 Berlin · Germany
Phone: +49 30 280 4711-0
Fax: +49 30 280 4711-11
Email: info@femto.de
www.femto.de

Specifications are subject to change without notice. Information provided herein is believed to be accurate and reliable. However, no responsibility is assumed by FEMTO Messtechnik GmbH for its use, nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of FEMTO Messtechnik GmbH. Product names mentioned may also be trademarks used here for identification purposes only.

© by FEMTO Messtechnik GmbH · Printed in Germany