

Installation and User Guide LOMK218

Description

LOMK218 is a tool for USB-RS485-conversion, including the USB-RS485-Kabel "USB-RS485-WE-1800-BT" of FTDI with RJ12-socket attached and an additional extension cord with RJ12-header at both ends. Data rates up to 250kBaud are supported.



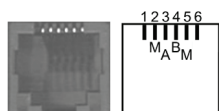
Technical data

Rated voltage	5VDC (USB powered)
Indicator	Red and green LED
Ambient temperature (storage)	-30 ... 85°C
Ambient temperature (operation)	-20 ... 55°C
Relative humidity	5 ... 95%
IP rating	IP20
Headers	USB: Type-B RS485: RJ12

Declaration of conformity

The USB-RS485-cable (FTDI) of LOMK218 is CE and FCC certified

Header and indicator



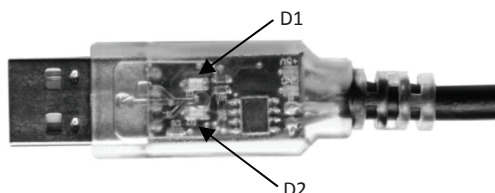
M: Ground (Ground RS485 is connected to ground USB with a 100Ω-resistor)


A: D- (RS485)

B: D+ (RS485)

D1 blinking red, if converter is transmitting data to RS485

D2 blinking green, if converter is receiving data from RS485



Step	To-do																																																																											
1	<p>Installation of driver:</p> <p>LOMK218 includes a chipset of FTDI; necessary driver is provided at http://www.ftdichip.com/Drivers/VCP.htm for download.</p> <p>ABL SURSUM will not take any warranty for correct function of driver!</p> <p>Currently Supported VCP Drivers:</p> <table border="1"> <thead> <tr> <th rowspan="2">Operating System</th> <th rowspan="2">Release Date</th> <th colspan="7">Processor Architecture</th> <th rowspan="2">Comments</th> </tr> <tr> <th>x86 (32-bit)</th> <th>x64 (64-bit)</th> <th>PPC</th> <th>ARM</th> <th>MIPSII</th> <th>MIPSIV</th> <th>SH4</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Windows*</td> <td>2011-04-12</td> <td>2.08.14</td> <td>2.08.14</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td rowspan="2">2.08.14 WHQL Certified Available as setup executable Release Notes 2.08.17 Beta Version Release Notes</td> </tr> <tr> <td>2011-08-26</td> <td>2.08.17(Beta)</td> <td>2.08.17(Beta)</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Linux</td> <td>2009-05-14</td> <td>1.5.0</td> <td>1.5.0</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Included in 2.6.31 kernel and later ReadMe</td> </tr> <tr> <td>Mac OS X</td> <td>2011-02-28</td> <td>2.2.16</td> <td>2.2.16</td> <td>2.2.16</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Customers wishing to have a VID/PID combination added should contact FTDI Support</td> </tr> <tr> <td>Windows CE 4.2-5.2**</td> <td>2012-01-06</td> <td>1.1.0.10</td> <td>-</td> <td>-</td> <td>1.1.0.10</td> <td>1.1.0.10</td> <td>1.1.0.10</td> <td>1.1.0.10</td> <td></td> </tr> <tr> <td>Windows CE 6.0</td> <td>2012-01-06</td> <td>1.1.0.10</td> <td>-</td> <td>-</td> <td>1.1.0.10</td> <td>1.1.0.10</td> <td>1.1.0.10</td> <td>1.1.0.10</td> <td></td> </tr> </tbody> </table> <p>*Includes the following versions of the Windows operating system: Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7, Windows Server 2008 R2.</p> <p>„setup executable“ automatically installs driver on PC</p> <p>After installation LOMK218 can be connected to PC by included USB-cable. Target device must not be connected to RS485-header! LOMK218 is detected by PC automatically as virtual COM-port (VCP) Communication via LOMK218 is enabled by using assigned COM-port</p>	Operating System	Release Date	Processor Architecture							Comments	x86 (32-bit)	x64 (64-bit)	PPC	ARM	MIPSII	MIPSIV	SH4	Windows*	2011-04-12	2.08.14	2.08.14	-	-	-	-	-	2.08.14 WHQL Certified Available as setup executable Release Notes 2.08.17 Beta Version Release Notes	2011-08-26	2.08.17(Beta)	2.08.17(Beta)	-	-	-	-	-	Linux	2009-05-14	1.5.0	1.5.0	-	-	-	-	-	Included in 2.6.31 kernel and later ReadMe	Mac OS X	2011-02-28	2.2.16	2.2.16	2.2.16	-	-	-	-	Customers wishing to have a VID/PID combination added should contact FTDI Support	Windows CE 4.2-5.2**	2012-01-06	1.1.0.10	-	-	1.1.0.10	1.1.0.10	1.1.0.10	1.1.0.10		Windows CE 6.0	2012-01-06	1.1.0.10	-	-	1.1.0.10	1.1.0.10	1.1.0.10	1.1.0.10	
Operating System	Release Date			Processor Architecture								Comments																																																																
		x86 (32-bit)	x64 (64-bit)	PPC	ARM	MIPSII	MIPSIV	SH4																																																																				
Windows*	2011-04-12	2.08.14	2.08.14	-	-	-	-	-	2.08.14 WHQL Certified Available as setup executable Release Notes 2.08.17 Beta Version Release Notes																																																																			
	2011-08-26	2.08.17(Beta)	2.08.17(Beta)	-	-	-	-	-																																																																				
Linux	2009-05-14	1.5.0	1.5.0	-	-	-	-	-	Included in 2.6.31 kernel and later ReadMe																																																																			
Mac OS X	2011-02-28	2.2.16	2.2.16	2.2.16	-	-	-	-	Customers wishing to have a VID/PID combination added should contact FTDI Support																																																																			
Windows CE 4.2-5.2**	2012-01-06	1.1.0.10	-	-	1.1.0.10	1.1.0.10	1.1.0.10	1.1.0.10																																																																				
Windows CE 6.0	2012-01-06	1.1.0.10	-	-	1.1.0.10	1.1.0.10	1.1.0.10	1.1.0.10																																																																				
2	<p>Connect target device to RS485-header with supplied RJ12-cable.</p>  <p>Target device is not supplied by LOMK218; an independent power-supply is required.</p>																																																																											
3	<p>Communication via VCP is now established between PC and target-device</p>																																																																											

Use “setup executable” for Windows®-OS

Trouble-shooting

Problem	To do
LOMK218 is not detected by PC	Check download and installation of correct driver.
Malfunction of data-transfer	Restart LOMK218 by reconnecting USB-cable; RS485-headers must be left unconnected until LOMK218 is detected by PC properly