### ACCTETHNK – Ethernet adapter kit for CT/ CTlaser

### Scope of Supply

- Ethernet interface board
- Ethernet adapter incl. 1m connection cable
- Software CD
- Cable gland M12x1,5
- Mounting screws, cable tie

#### EU Declaration

The product meets the provisions of the EMC Directive **2014/30/EU** and the Low Voltage Directive **2014/35/EU**.

(6

EMC General Requirements: EN 61326-1:2013 (Basic requirements) EN 61326-2-3:2013 Safety of measurement devices: EN 61010-1:2010

This product is in conformity with Directive **2011/65/EU** (RoHS) of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

#### 1. Hardware Installation

Please plug the Ethernet interface board into the place provided, which is located beside the display. In the correct position the holes of the interface match with the thread holes of the CT box. Now press the PCB downwards and fix it using both M3x5 screws. Exchange the blind screw on the CT box by the cable gland and install the connection cable (interface board – Ethernet adapter). Make sure the wiring is correct according to the wire colours printed on the interface board.

Please connect the shield of the cable with the electronics housing (inside the cable gland).

#### The CT unit needs a power supply for operation with at minimum 12 V.

Please connect the Ethernet adapter device with your network using an Ethernet cable.



### 2. Network Installation

Insert the installation CD into the according drive on your computer. If the autorun option is activated the installation wizard will start automatically. Otherwise please start **CDsetup.exe** from the CD-ROM. The following screen will appear. Please select **Install Ethernet Driver**.

/		
	Compact Connect	
	Install Software	/
	Install Adapter Driver	
	EXIT	



Select Add New Device and press Continue.



The following screen shows all settings. Please press **Finish**.



To deinstall an adapter please follow the steps described under **Network Installation**. Select **Remove an Existing Device** and then **Continue**.

IP Addrese /	MAC Address	Model	_
192 168 49 184	00:40:9D:4D:DA:10	CT Ethernet Adapter	

The IP- and MAC-address of the Ethernet adapter will appear in the list. You will find the MAC address also printed on the Ethernet adapter. Please mark the adapter in the list and press **Continue**.

Installing Digi RealPort Please wait while your Digi RealPort device	is installed.	I)
Installing Multiport Serial device		
	< ⊒urück Fertig stellen At	obrechen

The device will be installed inside the network.

Devices	installed	on your computer:		
Name	Δ		IP Address	MAC Address
СТ	Ethernet	Adapter (192.168.49.178)	192.168.49.178	00:40:9D:4D:DA:10
СТ	Ethernet	Adapter #2 (192.168.49.184)	192.168.49.184	00:40:9D:4D:DA:10
<				
			Deselect	t All Select All

In the following overview all on the PC installed Ethernet adapter are shown. Select the adapter(s) which should be deinstalled and press **Continue**.

### 3. Direct Connection to a PC

If a direct connection between Ethernet adapter and PC is required the adapter and the PC need to get a fixed IP address. After the network installation please open the Windows device manager (Start/ Control panel/ System/ Hardware/ Device manager).



Please choose **Multi adapter (serial)** from the list. By double click on the desired Ethernet adapter a properties window is opening.

Allgemein	Advance	d Treiber Details	
×1	CT Ethem	net Adapter #2 (192.168.49.184)	
	Digi Realf	Port Driver and Setup	
	Copyright 1998-2010 Digi International Inc.		
	Protected by U.S. Patent No. 6,047,319. Patents Pending.		
Devic	e Informatio	n	
Mod	lel Name:	CT Ethemet Adapter	
No.	of Ports:	1	
IP A	ddress:	192.168.49.184	
TCP	Port:	771	
Conr	nection:	Connected	
Devi	ice UI:	http://192.168.49.184	
Secu	urity:	Encryption Off	
		Properties	
		OK Abbrechen	

Please open the tab **Advanced** in this window. Beside **Device UI** you will find a link with the network IP address.

CT Ethernet Adapter Configur	ation and Management - Windows Internet Explorer	- ei
😋 💽 🗢 🙋 http://192.168.49.1	184/home.htm 🛛 😪 🔂 😪 🔀 Google	9
🔶 Favoriten 🏾 🏉 CT Ethernet Adap	ter Configuration and Management 🚺 🔹 📾 🔹 Sejte 🔹 Sigherh	neit • Extras • 🔞 •
	CT Ethernet Adapter Configuration and Management	
		🕜 Help
Home	Home	
Configuration	Getting Started	
Serial Ports GPIO	Tutorial Not sure what to do next? This Tutorial can help.	
Alarms	System Summary	
Remote Management Users	Model: CT Ethernet Adapter IP Address: 192.168.49.184	
Management Serial Ports	MAC Address: 00:40:9D:4D:DA:10	
Connections	Description: None Contact: None	
Administration File Management	Location: None	
Backup/Restore Update Firmware Factory Default Settings	Device ID: 00000000-0000000-00409DFF-FF28E687	
System Information	User Interface	
Reboot	Web Interface (Default): Enabled	
Logout	Custom Interface: Launch Set as Default	
	Copyright © 2003-2008 Optris GmbH All rights reserved.	
	www.optris.de	
	😜 Internet	- • • 100% •

By clicking on the link the configuration page for the Ethernet adapter will be opened in your web browser. The PC must be connected to the internet for this purpose. Please select **Network** (Navigation left; below Configuration).

CT Ethernet Adapter Configur	ation and Management - Windows Inte	ernet Explorer		
🕘 🗢 🙋 http://192.168.49.1	84/config/network/network_config.htm		💌 🗟 👉 🗙 🚼 Google	٩
Favoriten 🖉 CT Ethernet Adapt	er Configuration and Management		🟠 🔹 🗟 🛸 🖃 🌐 👻 Sejte 🔹 Sig	herheit • Extras • 🔞 •
	CT Ethernet Adapte	er Configurat	ion and Management	
Home	Network Configuration			😮 Help
Configuration				
Network Serial Ports GPIO Alarms System Remote Management Users Management	Obtain an IP address auto     Obtain an IP address auto     Use the following IP addre         "IP Address: 192         "Subnet Mask: 255         Default Gateway: 192	matically using DHCP ss: 2.168.49.184 5.255.255.0 2.168.49.254	-	
Connections Administration File Management Backup/Restore Update Firmware Eactory Default Settions	* Changes to DHCP, IP address Apply Network Services Settings	and Subnet Mask rec	uire a reboot to take effect.	
System Information Reboot	Advanced Network Settings			
	Copyright © 20	003-2008 Optris GmbH A www.optris.de	Il rights reserved.	
rtio			Internet	🕼 • 🔍 100% •

In the input mask below **Use the following IP address** you can now enter a fixed IP address. Confirm your settings with **Apply**.

For a communication with the adapter you now have to configure the network settings on your PC. Please open the LAN settings (Start/ Control panel/ Network settings/ Settings):



Mark the LAN connection and open the properties window (right mouse button)

🕂 Eigenschaften von LAN-Verbindung 🛛 🔹 💽		
Allgemein Erweitert		
Verbindung herstellen über:		
Broadcom NetLink (TM) Gigabit Ether Konfigurieren		
Diese Verbindung verwendet folgende Elemente:		
Solient für Microsoft-Netzwerke     Solient für Microsoft (     Solient f     Solient f     Solient f		
Installieren Deinstallieren Eigenschaften Beschreibung TCP/IP, das Standardprotokoll für WAN-Netzwerke, das den		
Datenaustausch über verschiedene, miteinander Verbundene Netzwerke ermöglicht.		
<ul> <li>Symbol bei Verbindung im Infobereich anzeigen</li> <li>Benachrichtigen, wenn diese Verbindung eingeschränkte oder keine Konnektivität besitzt</li> </ul>		
OK Abbrechen		



Eigenschaften von Internetproto	koll (TCP/IP)				
Allgemein					
IP-Einstellungen können automatisch z Netzwerk diese Funktion unterstützt. W den Netzwerkadministrator, um die geei beziehen.	ugewiesen werden, wenn das /enden Sie sich andemfalls an gneten IP-Einstellüngen zu				
◯ IP-Adresse automatisch beziehen					
• Folgende IP-Adresse verwenden:					
IP-Adresse:	192 . 168 . 049 . 100				
Subnetzmaske:	255 . 255 . 255 . 0				
Standardgateway:	<u> </u>				
ODNS-Serveradresse automatisch t	peziehen				
• Folgende DNS-Serveradressen ve	erwenden:				
Bevorzugter DNS-Server:					
Alternativer DNS-Server:					
	Erweitert				
	OK Abbrechen				

Please enter a fixed IP address here for the PC.

Please note that the first three blocks have to match with the IP address of the adapter device (example: 192.168.049). Press **OK**. The installation is finished.

#### 4. Settings inside the CompactConnect software

After a successful network installation of the Ethernet adapter you can start the CompactConnect software. To make sure that an available device can be found you should activate at first the function **Scan non-USB devices** in the menu point **Preferences/ Options**:

Ask for saving     Force data saving after "stop"     Scan non-USB devices     Auto scan device     Auto start device     Enable button to toggle LASER     Warning message if LASER ON     System priority     Priority :	Decimal separator     System     User defined:     Application title     Application name     User defined:     Temperature unit     C *C C *F
<u>C</u> ancel	<u>D</u> K

Further you should set the **Communication mode** to **Standard** (Menu: **Measurement/ Settings**). This activates the so called polling mode (bi-directional communication).

Max. data count	1000 x 1000 🜩
C Stop	<ul> <li>O⊻erwrite</li> </ul>
Memory:	42,0MB
Recording interval (equal wi resolution):	th diagram 1msec
Recording time:	16 min, 40 sec
Communication mode	l
○ <u>B</u> ealtime	Standard
	]Cancel

### 4. Reset of the Adapter

The Ethernet adapter can be reset to the **factory default** configuration. Please use a ballpen to reach the reset button (hole on top of the housing):

- Power on the device while holding the Reset button down.
- After a few seconds you may see a blink of the green LED (network connection).
- Wait until you see the green LED blink a 1-5-1 pattern <sup>1)</sup>, then release the reset button.
- Wait for the device to boot up. At this time, the configuration is returned to factory defaults.
- Powering off the device **before** releasing the button guarantees the configuration will NOT be reverted.
- Powering off the device just after releasing the button will result in an unknown configuration, possibly having some or all settings reverted to defaults.

<sup>1)</sup> blink – pause – 5xblink – pause – blink

After the reset the adapter works in the DHCP mode. If you like to establish a direct connection to a PC please follow this instruction, chapter 3.