

# DSP-2 Ethernet Settings

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xPort DeviceInstaller: 3.6.0.6

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### 1. About this documentation

This documentation briefly describes DSP-2 controller Ethernet setup procedure. It is assumed that user is familiar with DSP-2 controller, DSP-2 library for Simulink and DSP Terminal, if not user should read the documentation which can be found under:

http://www.ro.feri.uni-mb.si/projekti/dsp2/documentation.htm

#### Related documentation:

- DSP-2 User's Manual
- DSP-2 Library for Simulink User's Manual
- DSP Terminal User's Manual

#### 2. Installation procedure

- 1. Install Lantronix xPort DeviceInstaller
- 2. Connect DSP-2 controller to the power supply and to the Ethernet network
- 3. run DeviceInstaller
- 4. in DeviceInstaller main window select Device->Assign IP address (Figure 1)
- 5. In *Assign IP Address* window (Figure 2) you need to enter xPort hardware address. This address is in form 'xx-xx-xx-xx' and can be found on DSP-2 Ethernet connector.
- 6. After entering hardware address, select *assign specific IP address* option in *Assign IP Address* window (Figure 3)
- 7. Enter your *IP address*, *Subnet musk* and *Default gateway* (Figure 4)

After assigning IP address please check, if all xPort parameters are set correctly! These settings can be found in chapter *xPort default settings* on page 5!

🐉 Lantronix De	viceInstaller 3.6.0.6							
File Edit View	Device Tools Help							
	Search	F5						
Search Accion I	Add Device	F6						
	Address		Mana	<b>6</b>	TD Address	L Handara Addama	Chathan	_
Type	Configure		Name	Group	IP Address	Hardware Address	Status	
VPort-03	Upgrade	·			164.8.231.45	00-20-44-84-F0-83	Online	
	Web Pages				10 1.0.201.40	00 20-TA-0A-1 0"A2	OT HEILE	
🧭 Ready								.:
		_						777

Figure 1: assign IP address (1)



Figure 2: Assign IP Address (2)



Figure 3: Assign IP Address (3)



Figure 4: Assign IP Address (4)

### 3. xPort default settings

After assigning IP address to your DSP-2 controller, select xPort device in DeviceInstaller main window (Figure 5) and after that *Device->Configure...* menu option.

All parameters must be set exactly as they are shown in Figure 6, Figure 7, Figure 8 and Figure 9!

CAUTION: parameter CPU performance on Figure 7 must be set to Standard!

😺 Lantronix Dev	riceInstaller 3.6.0.6					
File Edit View	Device Tools Help					
Search Assign	Search F5 Add Device F6 Assign IP Address F7	l 🍕 t Web				
Туре	Configure	Name	Group	IP Address	Hardware Address	Status
XPort-03	Upgrade			164.8.231.45	00-20-4A-8A-F0-B3	Online
≌ XPort-03	Telnet Web Pages			164.8.231.40	00-20-4A-8A-F0-A2	Online
🏈 Ready						
_						

Figure 5: Device installer main window

🖳 Configure Device		
Documentation Ports	Advanced	
Port	Settings	
<b>A</b> 2 <b>↓</b> 1	230400, 8, None, 1, None	2
<		<u> </u>
	E	dit Settings
	OK Cancel	Apply
		11440

Figure 6: Configure Device: Port tab

Co	onfigure Device	
Doc	umentation Ports Advanced	1
Ξ	1. Device	
	Firmware Type	X2
	Firmware Version	1.80
	Product Type	XPort-03
	2. Email Notification	
	Domain Name	
	Mail Server	0.0.0.0
	Recipients	(Collection)
	Triggers	(Collection)
	Unit Name	
	3. Host List	
	HostList	(Collection)
	Retry Counter	3
	Retry Timeout	250
Ξ	4. OEM Configurable Pins	
	Pin 1	CTS
	Pin 2	DCD
	Pin 3	RTS
_	User IO	ActiveLow
	5. XPort	
	Cpu Performance	Standard 🗨
CI CI	<b>pu Performance</b> PU Performance Mode.	
	ОК	Cancel Apply

Figure 7: Configure Device: Advanced tab

📟 Port Properties		
Port Settings Adva	nced	
Baud Rate:	230400	
Data bits:	8	
Parity:	None	
Stop bits:	1	
Flow control:	None	

Figure 8: Port properties: Port Settings tab

📟 Pa	Port Properties				
Por	t Settings Advanced				
	1 Serial Settings				
	Baud Date	230400			
	Data Bits	8			
	Elow Control	None			
	Parity	None			
	Stop Bits	1			
	2. UDP Datagram Mode	•			
	Datagram Mode	False			
	Datagram Type	00			
	3. Passive Connection				
	Accept Passive Connection	With Active DTR			
	Auto Increment Source Port	False			
	Local Port	14001			
	Password Required	False			
	Port Password				
	4. Active Connection				
	Active Connection	None			
	ConnectionResponse	None			
	Modem Emulation Mode	None			
	Remote Host	0.0.0.0			
	Remote Port	0			
	Telnet Mode	False			
	Terminal Type				
	UseHostList	False			
	5. Disconnection				
	Disable Hard Disconnect	False			
	Disconnect With DTRDrop	False			
	Disconnect With EOT	False			
	Inactivity Timeout	00:00			
	6. Connection				
	Connection LED	Blink			
	7. Buffer Flushing				
Ð	Flush Input Buffer				
Ð	Flush Output Buffer				
	8. Packing				
	Enable Packing	False			
	Idle Time	Force Transmit 12 ms			
	Match Byte 1	00			
	Match Byte 2	00			
		OK Cancel			

Figure 9: Port Properties: Advanced tab