

MAMOS – CONFIGURATION OF LAN MODULE

User manual

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madur ELECTRONICS

Mamos analyser can optionally be equipped with LAN communication interface. It replaces one of the standard interfaces, i.e. RS485. Ethernet protocol is translated to serial communication via LAN module. For proper communication LAN module must be properly configured:

1. CONFIGURATION OF LAN MODULE

1.1. Mamos connected to network with Router (DHCP provided)

- 1. Connect mamos to free RJ45 port in router use straight ethernet cable
- 2. Download Tibbo software and install it

3. Run Tibbo Connection Wizard as Administrator



TDST Tibbo software for Windows



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4. 5. 6.	Select the <u>first</u> option, i.e. <i>Create a link between</i> <i>a Virtual Serial Port and Device Server</i> <i>Create new VSP</i> (and select port number, i.e. COM9) Press <i>Select from the list</i>	Select the kind of link you wish to create Create a link between a Virtual Serial Port and a Device Server Configure a Device Server for direct communications with an application on this PC Create a link between two Device Servers Rinish remote job	Specify the Virtual Serial Port Select existing VSP Tereate new VSP Port name: COM9	Specify the Device Server ● Device Server is not accessible from this PC ● Device Server is accessible from the list
7. 8.	Software will look for Tibbo modules in the LAN network. Select from the list a module you wish to connect to. Then press <i>Select.</i> Select <i>Virtual Serial Port</i>	Auto-Discovery Address Book Status MAC IP (1) 0.36.119.9.71.224 10.0.0.119 (local DH	Owner/Device name Refresh Select Settings Upgrade Initialize Routing Status Buzz! Change IP Add Find	Which side will have to send the data first?) Virtual Serial Port) Device Server) Any side (Virtual Serial Port or Device Server)

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	Gateway and netmask settings for the Device Server	Specify transport protocol and listening ports	Would you like to enable on-the-fly commands?	
9. Leave the rest of the settings by default	There is no need to specify the gateway and netmask for this Device Server. This may be because: • The Device Server is not going to establish outgoing connections, or: • Both sides of this data link are located on the same network segment.	UDP/IP transport protocol TCP/IP transport protocol Listening port on the VSP: Listening port on the Device Server: 1001	 No, disable on the fly commands Yes, enable on the fly commands, use out of band access method Yes, enable on the fly commands, use inband access method 	
	Serial Settings for the Device Server	Tibbo Connection Wizard is ready to set up the link. The following programming will be applied:	The Wizard has successfully completed the setup of the required connection	
 Leave the rest of the settings by default Finish the wizard – virtual COM port is now installed in your PC – select it in order to communicate with mamos via mamos PC 	There is no need to specify permanent communications parameters for the serial port of this Device Server. This is because you have enabled on the fly commands and the Vitual Serial Port will be adjusting serial port parameters as required by application.	DEVICE SERVER Routing mode: Server Transport protocol: TCP Local port: 1001 On-the-Fly commands: Enabled Flow control: 1- Local Baud rate: 7- 115200 bps Partiy: 0- None Data bits: 1-8 bits "All other Settings as per their default values	Click on the links below to review the setup on both sides of this connection: Open <u>COM1 Settings</u> Open <u>DS (10.0.0.119) Settings</u>	
software	Don't show this screen in the future	VIRTUAL SERIAL PORT (COM1) Routing mode: Client Destination: 0.36.119.9.71.224:1001 Connect mode: On-data Transport protocol: TCP Press Configure to proceed	Click <finish> to close the Wizard or <restart> to create another connection</restart></finish>	



 Proper installation may be verified in Windows device manager in Ports (COM & LPT section). A new entry should appear: Tibbo Virtual Serial Port

1.2. Mamos connected directly to PC (no DHCP)

1. Connect mamos to PC RJ45 port – use crossover ethernet cable



- 2. From Control Panel modify settings of your LAN adapter TCP/IPv4 settings
- 3. Specify IP for: address, subnet mask and default gateway, i.e. 10.0.0.2

4. Download Tibbo software and install it

5. Run Tibbo Connection Wizard as Administrator

Ethernet Properties X	Protokół internetowy w wersii 4 (TCP/IPv4) Properties
etworking Sharing	General
Connect using:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Configure Configure Armonogram pakietów QoS Protokół internetowy w wersji 4 (TCP/IPv4) Sterownik We/Wy mapowania z odnajdywaniem topok Protokół multipleksera karty sieciowej firmy Microsoft Sterownik protokołu LLDP firmy Microsoft Sterownik (Michael Content of the first	○ Obtain an IP address automatically ● Use the following IP address: IP address: 10 . 0 . 0 . 2 Subnet mask: 255 . 255 . 0 Default gateway: 10 . 0 . 0 . 1
Responder odnajdywania topologii warstwy linku	Obtain DNS server address automatically Use the following DNS server addresses: Preferred DNS server:
Description Transmission Control Protocol/Internet Protocol. Domyślny protokój dla sjeci moleckych umożliwiający komunikacje	Alternative DNS server:
połączonych sieci różnych typów.	Validate settings upon exit Advanced
OK Cancel	OK Cancel

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	Select the kind of link you wish to create	Specify the Virt	ual Serial Port		Specil	fy the Devi	ce Server
 Select the <u>second</u> option, i.e. <i>Create a Device</i> <i>Server for direct communications with an</i> <i>application on this PC</i> <i>Create new VSP</i> (and select port number, i.e. COM9) Press <i>Select from the list</i> 	Create a link between a Virtual Serial Port and a Device Server Configure a Device Server for direct communications with an application on this PC Create a link between two Device Servers Rinish remote job	Select existing VSP Create new VSP Port name: COM9	~	C	Device Server is a Device Server is a Device Server is a Device Server is a MAC-address: 0 . 36 .119. Access method f Out-of-Band (UI Access port: 65535 Select from the	et accessible front accessible front -> IP mappin 9 . 71 .224 for Wizard cor DP)	e from this PC m this PC g infiguration process:
 Software will look for Tibbo modules in the LAN network. Because PC do not send DHCP signals, Tibbo module will be assign IP address 1.0.0.1. Select from the list a module you wish to connect to. Then press Settings. In Settings window: Disable DHCP and manually set IP address, i.e. 10.0.0.3 	Auto-Discovery Address Book Status MAC IP III 0.36.119.9.71.224 1.0.0.1 (local DHCP)	Owner/Device name	Refresh Select Settings Upgrade Initialize Routing Status Buzz! Change IP Add Find	Settings: DS <v3.72+n Network Connection Se Owner name Device name MAC-address DHCP IP-address Port Registration at dDNS Server port AdDNS Server port AdDNS Server port AdDNS Server port AdDNS Server port AdDNS Server port Server port Server port Server port Server port Server port Server port Server port Server port AdDNS Server port AdDNS Server port AdDNS Server port AdDNS Server port AdDNS Server port AdDNS Server port Server port AdDNS Server port Server port Server port Server port Server port Server port Server port Server port AdDNS Server port AdDNS Server port AdDNS Server port AdDNS Server port AdDNS Server port AdDNS Server port Server port</v3.72+n 	L> tial port Outbound pace 0.36.119.9.71.224 0.Disabled 10.0.0.3 1001 er 0-Disabled (indevant)	- Al	Cancel

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	Auto-Discovery Address Book Status MAC IP (iii) 0.36.119.9.71.224 10.0.0.3 (local)	Owner/Device name Refresh Select Settings Upgrade Initialize	Which side will have to send the data first?
 Press refresh: same module should be found with the previously assigned IP address Select <i>Virtual Serial Port</i> 		Routing Status Buzz! Change IP Add Find	O Device Server Any side (Virtual Serial Port or Device Server)
	Gateway and netmask settings for the Device Server	Specify transport protocol and listening ports	Would you like to enable on-the-fly commands?
13. Leave the rest of the settings by default	There is no need to specify the gateway and netmask for this Device Server. This may be because: - The Device Server is not going to establish outgoing connections, or; - Both sides of this data link are located on the same network segment.	UDP/IP transport protocol TCP/IP transport protocol Listening port on the VSP:	 No, disable on the fly commands Yes, enable on the fly commands, use out of band access method Yes, enable on the fly commands, use inhand access method
	Don't show this screen in the future	Listening port on the Device Server:	 Tes, enable originarios, use inibiano access menoo

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14. Leave the rest of the settings by default 15. Finish the wizard – virtual COM port is now	Serial Settings for the De There is no need to specify permanent co for the serial port of this Device Server. T enabled on the fly commands and the Viri adjusting serial port parameters as require	evice Server ommunications parameters his is because you have tual Serial Port will be sed by application.	Tibbo Connection Wizard is ready to set up the link. The following programming will be applied: DEVICE SERVER • Routing mode: Server Transport protocol: TCP Local port: 1001 On-the-Fly commands: Enabled Row control: 1- Local Baud rate: 7- T15200 bps	The Wizard has successfully completed the setup of the re- connection Click on the links below to review the setup on both sides of connection: Open <u>COM1 Settings</u> Open <u>DS (10.0.0.119) Settings</u>	equired
communicate with mamos via mamos PC software	Don't show this screen in the future		Partiy: 0- None Data bits: 1- 8 bits "All other Settings as per their default values VIRTUAL SERIAL PORT (COM1) Routing mode: Client Destination: 0.36.119.9.71.224:1001 Connect mode: On-data Transport protocol: TCP	Click <finish> to close the Wizard or <restart> to create an connection</restart></finish>	nother
16. Proper installation may be verified in Windows device manager in Ports (COM & LPT section). A new entry should appear: Tibbo Virtual Serial Port		Device Manager File Action View Help Device Manager File Action View Help Display adapters Display adapters Display adapters DVD/CD-ROM drives DVD/CD-ROM drives	ices Illers devices ing devices (Personal Area Network) (RFCOMM Protocol TDI) k (TM) Gigabit Ethernet os AR5BWB222 Wireless Network Adapter Adapter : szeregowy przez link Bluetooth (COM6) : szeregowy przez link Bluetooth (COM7) al Port (COM9)		