First Use MDBoard Configurator and ButtonMarker

0. Start → View network connections





1. Local Area Connection \rightarrow Properties

2. Internet Protocol Version 4 (TCP/IPv4) → Properties

- CO.	ect using:		
2	Realtek PCIe GE	3E Family Controller	
			Configure
This c	onnection uses th	ne following items:	
		protocol (DCP/LLDP)
	🔺 SIMATIC Indu	strial Ethernet (ISO)	
	- PROFINET IC	RT-Protocol V2.3	
	- Internet Protoc	col Version 6 (TCP/IP)	v6)
✓	📥 Internet Protoc	col Version 4 (TCP/IP)	(4)
•	📥 Link-Layer Top	pology Discovery Map	per I/O Driver
✓	📥 Link-Layer Toj	pology Discovery Res	ponder
1		III	
	Install	Uninstall	Properties
	cription		
Des		Protocol/Internet Prot	tocol. The default
Des Tra	Insmission Control	There are a second the second se	
Des Tra wid	insmission Control le area network p	rotocol that provides o	communication

3. Use the following IP address

IP address: 192.168.1.102

Subnet mask: 255.255.255.0

Seneral									
You can get IP settings assig this capability. Otherwise, yo for the appropriate IP setting	ned automa ou need to a gs.	atically ask you	if yo ır ne	ur twi	net ork	wo adr	rk su ninis	ippo trat	orts or
🔘 Obtain an IP address au	utomatically	1							
Use the following IP add	dress:								
IP address:		192 .	168	•	1	. 1	102		
S <u>u</u> bnet mask:		255 .	255		255	×	0]	
Default gateway:			S - 3			2		1	
Obtain DNS server addr	ess automa	atically							
Ouse the following DNS s	erver addre	esses:						42	
Preferred DNS server:				•		÷			
Alternate DNS server:		,	(- 3	•		×		1	
Validate settings upon	exit					A	d <u>v</u> ar	nced	l
				_	_	_			_

4. Run ButtonMarkerSetup x.x.x.xxxx



5. Select Setup Language: English

Select Se	tup Language
1	Select the language to use during the installation:
	English Cancel

6. Next



7. Next

Select D	estination Locati	on			
Where	e should ButtonMark	er be installed	?		Æ
	Setup will install E	ButtonMarker i	nto the following	folder.	
To cor	ntinue, click Next. If	you would like	to select a differ	ent folder, did	Browse,
C:\Pr	ogram Files\Tullio Giu	usi\ButtonMark	er		Browse
At lea	st 56,3 MB of free di	sk space is red	quired.		
					_

8. Next

Setup - ButtonMarker	
Select Start Menu Folder	
Where should Setup place the prog	gram's shortcuts?
Setup will create the prog	ram's shortcuts in the following Start Menu folder.
To continue, dick Next. If you wou	Id like to select a different folder, dick Browse.
Tullio Giusi\ButtonMarker	Browse
	< Back Next > Cancel

9. Next

Setup - ButtonMarker		
Select Additional Tasks		
Which additional tasks should be performe	d?	Gu
Select the additional tasks you would like S ButtonMarker, then click Next.	etup <mark>to</mark> perform while	installing
Additional icons:		
Create ButtonMarker desktop icon		
🔽 Create MDBoardConfigurator desktop	icon	
	< Back 1	Next > Cancel

10. Install



11. Deselect "Run ButtonMarker.exe"

Finish

B Setup - ButtonMarker	
Jos Giusi	Completing the ButtonMarker Setup Wizard Setup has finished installing ButtonMarker on your computer. The application may be launched by selecting the installed icons. Click Finish to exit Setup.
	Einish

12. Run MDBoardConfigurator

🔅 MDBoardConfigurate			_ 🗆 🔀
	× × ×		Giusi/aser
	Connect to machine		
	Name 🔺 Address	Laser name	
	SingleBoard 192, 168, 1, 100	EC1000 [192, 168, 1, 101][00:00:00:00:00:00)
	Connect	Cancel	
		27 27 *	
L			

Press Cancel

13. Press Login

🔯 MDBoardConfigurator		×
	Gius i/ a	ser
Login		
	₫ \$ \$ # 6 1 1 1	* -
		(18)8:

14. User: "tg"

Password: "service"

	ug
assword	******

Press Login

15. Press Boards settings

🔆 MDBoardConfigurator - User 'TG'							
			G	ius	il a	ise	r
Boards settings							
				1		-	_
	S	**			00	* .	-

16. Press "..."

utomatic connection			
asers broadcast timeout <mark>(</mark> ms)	100		E
🤣 SingleBoard	₽ ×		
	Name	SingleBoard	
	Address	192.168.1.100	
	Laser board name	EC1000 [192.168.1.	101][00]
	Laser connection retries	6	*
	Laser connection retry delay (ms)	1000	×

17. Select EC1000 192.168.1.101

liect laser Doa	ird	
Laser boards		
Name 🔺	Name 🔺 IP address MAC address	
EC1000 1	92.168.1.101	00:50:c2:4f:a6:16
	Select	Cancel

Press Select

18. Save and Close is disabled

SingleBoard 192.168.1.10 EC1000 [192	00 . 168. 1. 101][00]
SingleBoard 192.168.1.10 EC1000 [192	00 . 168, 1, 101][00]
SingleBoard 192.168.1.10 EC1000 [192	00 . 168, 1, 101][00]
192.168.1.10 EC1000 [192	00 . 168. 1. 101][00]
EC1000 [192	. 168. 1. 101][00]
6	A *
(ms) 1000	*
	cel

19. Check and uncheck Automatic connection: save and close is enabled

Boards settings		
Automatic connection		
Lasers broadcast timeout (ms)	100	A V
SingleBoard		
	Name	SingleBoard
	Address	192.168.1.100
	Laser board name	EC1000 [192.168.1.101][00
	Laser connection retries	6
	Laser connection retry delay (ms)	1000
	Save and close OCancel	

Press Save and close

20. Press Logout...

🔯 MDBoardConfigurator - User 'TG'	
	Giusilaser
Logout	
	8 * * 6 - 0 * * -

21. Press Yes



22. Press Connect...

👹 MDBoardConfigurator	- 🗆 🛛
	Gius <mark>i/</mark> aser
Connect	
	00::-

23. Select SingleBoard

C	onnect to machine			
	Name		Address	Laser name
	SingleBoard		192.168.1.100	EC1000 [192.168.1.101][00:50:c2:4f:a6:16]
			Connect 🞯	Cancel
			Connect Ø	Cancel

Press Connect

24. Connection in progress...



25. FTP files download

🐳 MDBoardConfigurator - User 'TG'	_ 0 🛛
	Gius <mark>i/</mark> aser
FTP files download	
FTP files download	
Local file C:\Program Files\Tullio Giusi\Bunections\SingleBoard\Periph.xml	
Remote file Errors.xml	
100%	
8 1 ×	

26. Go to Inputs tag: I_StartMark and I_ResetMark are complemented

3						Giu	silas
~	Address 🔺	Name	Туре	Filter	Interlock	Alarm	Complement
1	0.00	I_StartMark	PNP	2			
1	0.01	I_ResetMark	PNP	20			
1	0.02	I_PowerFault	PNP	20	\checkmark	V	
1	0.03	I_Pointer	PNP	20			
1	0.04	I_Emergency	PNP	20			
1	0.05	I_CO2Fault	PNP	20			
1	0.06	I_WLF	PNP	20			
1	0.07	I_WLL	PNP	20			
1	0.08	I_WHT	PNP	20			
9	0.09	I_CondFault	PNP	20			
9	0.10	I_PreCondWarn	PNP	20			
1	0.11	I_StartMarkKeyb	PNP	20			
1	0.12	I_ResetMarkKeyb	PNP	20			
1	0.13	I_DrawBit0	PNP	2			
1	0.14	I_DrawBit1	PNP	2			
0	0.15	I_DrawBit2	PNP	2			
1	0.16	I_DrawBit3	PNP	2			
1	0.17	I_DrawBit4	PNP	2			
1	0.18	I_Sample_Keyb	PNP	20			
1	0.19	I LamoFault	NPN	20			
G	eneral 🛛 🏷 P	eripherals SInputs Outputs Alarms					

🗟 🖉 🖉 🕜 👘 Giusi/ase					
	Address 🔺	Name	Туре	Linked input	Complement
	0.00	O_Ready	PNP		
•	0.01	O_Fail	PNP		
	0.02	O_Process	PNP		
1	0.03	O_AutoOn	PNP		
۰.	0.04	O_Standby	PNP		
	0.05	00_05	PNP		
	0.06	00_06	PNP		
	0.07	00_07	PNP		
	0.08	O0_08	PNP		
1	0.09	00_09	PNP		
	0.10	O0_10	PNP		
	0.11	00_11	PNP		
E.	0.12	00_12	PNP		
	0.13	00_13	PNP		
l.	0.14	00_14	PNP		
1	0.15	O0_15	PNP		
	0.16	O_StopJob	πL		
1	0.17	00_17	TTL		
	0.18	00_18	m		
	0.19	00 19	π		
Ge	eneral 🐘 P	eripherals 📲 Inputs 🚼 Outputs 🚺 🙆 Alar	ms		

27. Go to Outputs tag: O_Ready and O_Fail are complemented, O_Process is not complemented

28. Press Disconnect...

3.		Disconnect			Jius <mark>i/</mark> as
1	Address 🔺	Name	Туре	Linked input	Complement
	0.00	O_Ready	PNP		
1	0.01	O_Fail	PNP		
	0.02	O_Process	PNP		
	0.03	O_AutoOn	PNP		
	0.04	O_Standby	PNP		
	0.05	00_05	PNP		
	0.06	00_06	PNP		
	0.07	00_07	PNP		
	0.08	00_08	PNP		
	0.09	O0_09	PNP		
	0.10	O0_10	PNP		
	0.11	00_11	PNP		
	0.12	00_12	PNP		
	0.13	00_13	PNP		
	0.14	00_14	PNP		
	0.15	O0_15	PNP		
	0.16	O_StopJob	TL		
	0.17	00_17	m		
	0.18	O0_18	m		
8	0.19	00 19	πι		
Ge	eneral 👘 P	eripherals 🚼 Inputs 🚼 Outputs 🔘 🗛	Alarms		

29. Close MDBoardConfigurator

🗞 MDBoardConfigurator	
	Giusi/aser ^c
s ⁷ 2 ⁴ **	

30. Copy "Test15-07-21.BMProject" in "C:\ButtonMarker\Projects\"

🔾 🔾 🗢 🚺 « OS (C:) ▶ ButtonMarker ▶ Projects ▶	✓ 4 Search Proj	jects p
Organize 🔻 🛛 Inclu	ide in library 🔻 Share with 🔻 Burn	New folder	III • 🔟 🔞
 ★ Favorites ■ Desktop ▶ Downloads ▶ Recent Places ▶ Libraries ■ Documents ▶ Music ■ Pictures ♥ Videos 	Name Test 15-07-21.BMProject	Date modified 21/07/2015 13:36	Type Size File folder
	÷ <	ш	
1 item			

31. Run ButtonMarker



32. Ppress Tool \rightarrow Login...

- ButtonMarker	
File Tools Window ?	
Image: Contract of the second seco	Giusilaser
🗑 Lineati	

33. User: "tg"

Password: "service"

User	tg
Password	******

Press Login

34. Press Tools \rightarrow Settings



35. Go to "General tag"

Uncheck "Botton Front"

Uncheck "Botton Side"

Check "Generic"

Set "Pot" as "Name of generic project"

nglish alian Reference Fill color Border co Separato C:\ButtonMarker\Projects	nd color e shapes Jor r color	Ukhite			Mark
C:\ButtonMarker\Projects	e shapes Nor r color	LightGreen Black			() Hardwa
C:\ButtonMarker\Projects Alignmen	vlor r color	LightGreen			
C:\ButtonMarker\Projects Alignmen	ilor r color	Black		\checkmark	
C:\ButtonMarker\Projects	r color	Blue			
C:\ButtonMarker\Projects Alignmen				\checkmark	
	t grid				
s C:\ButtonMarker\Drawings X spacing	X spacing (mm)		÷.		
istory C: \ButtonMarker \AlarmsHistory Y spacing	(mm)		10	÷	
enabled Snap ma	gin (%)		50	×	
ront Style		Line			
ide 🗌 🗌 Color		Red			
generic project Pot					