

Quick User Guide







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55	83	52		2		35	1		8	65	18	2	2			53	12	52	55	83		22	5		8.1	5
53	22	12	2				2	8	2	0	1	12	3	201	5	5		<u>t</u> .:	10	8	8				2.1	5
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CONTENTS

Factory settings	2
Changing the communication mode	3
Changing the regulation	5
Operating modes	7
TCP operation with Switch POE+	8
Reader connection	8
Searching for the IP address of the reader	8
Reset and reconfiguration of the Ethernet module	10
Communication test	13
TCP operation: direct connection to the PC (without Switch / test mode)	14
Reader connection	14
RESET of the Ethernet module	15
Searching for the reader on the network	16
Computer network settings	18
Configuration of the Ethernet module	18
Communication test	21
Keyboard emulation operation	22



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1	55	22	12			1	-		8.3	5	0	1	8	2	5	201	1	5		1	11	2	8		-		5.3	5
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Factory settings

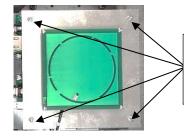
Communication mo	ode	Ethernet
Baud rate		115200
RS485 address		0
Hardware configu outputs (OutputConf)	uration of the	Output type ● V+ ○ OC
Status of the outpur (OutputConf)	ts	State Closed Opened
Autonomous_Outp	ut	Autonomous_Output NoLeadingZeros PC output EPC format CR/LF MSB Hexadecimal STX+ETX LSB Decimal LRC Output Len 12 AntID EPC TID Ien I I word
RF settings ATX4	Upper-band	AScanDuration x10msPowerAntenna0202691
	Lower-band	AScanDuration x10msPowerAntenna0202741
RF settings ATX	Upper-band	AScanDuration x10msPowerAntenna0203101
	Lower-band	AScanDuration x10msPowerAntenna0203251



Changing the communication mode

1- Connect the reader with the internal USB-C connector.





To access the interface card of the ATX reader, unscrew the 4 nuts of the antenna plate, gently lift the plate so as not to damage the cable.

- 2- Open STid SESProUHF. (v 1.0.0.847 or higher).
- 3- On the "SSCP" tab, enter the following settings and the number of the communication port to which the reader is connected:

STid - SESPro - Options/SSCP		- 🗆 X
= Options Home	SSCP	SSCP Security mode Plain ~
Preferences	Communication mode	Change Keys OnlySoftKeys
SSCP	RS232 🗸 🗹 AutoConnect	Signature A087754B7547481094BE
Firmware	Port COM ?	Encryption E74A540FA07C4DB1B46421126DF7AD36
	Baudrate 115200 V	
MIFARE DESFire EvX MIFARE Ultra Light / C	Reader Nb 0	Authenticate
CPS3 Biometrics		Key Index
 Image Scan Bluetooth / NFC 	- Timeouts (ms)	Encryption -1 Value 1
125 kHz LEGIC	Total read 2000	
□ UHF Reader	Byte read 2000	ResetAuthenticate
Reader InOut		SetAllowedCommModes
Reader RF	Console 🗹 Spy 🗹	Plain Signed Encryption
Mandatory		
Custom	Results	Activity
Async/Auto/EPCMap 到 OSDP	result	
1 000F		Quit



- 4- On the "Reader" tab:
 - enter "LinkBudget 0...3":

- 00000000 pour ATX - 90909090 pour ATX4

- Select the required type of communication: RS232 or RS485 or TCP.
- Click "SetSerial&HWType".
- Check that the command has been executed in the "Results" window, which displays OK.

🕸 STid - SESPro - UHF/Reader		– – ×
= Options		
Home	GetReaderType	SSRelayConfig4 INC1 INC2 INC3 INC4
Preferences	GetSerialNumber	Save1 Save2 Save3 Save4
SSCP	(0000)	⊘OpenD1 ⊘OpenD2 ⊘OpenD3 ⊘OpenD4 SSRelayAction4
Firmware	GetInfos SetBaudRate	Action1 Action2 Action3 Action4
Reader	AutoBaud Baudrate	SSRelayState4
MIFARE Classic / Plus MIFARE DESFire EvX	AutoPort 38400 ~	
MIFARE Ultra Light / C		
CPS3		
Biometrics	BuzzerSoundLevel Level 10	OutputRGB
■ Image Scan	Save	Red Green Blue
Bluetooth / NFC		FF FF FF
125 kHz	Туре	hex values
■ LEGIC ■ UHF	SetSerial&HWType	
	LinkBudget 03 SASASASA ORS485	
Reader	OTCP	
Reader InOut	Dataln	LED duration Buzzer duration Spectre LED Adr
Reader RF	Transceive	
Mandatory		
Custom	Results command	Activity
Async/Auto/EPCMap	result	3 ¹¹ / ₂
∎ OSDP		212
		Quit

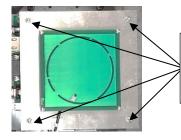


0	86	33	8	8			3	35	15	25	8	1	2	3		10		52	62	20	23	8	31	10		10	3
15	15	83	2		2		35	11	11	8	65	15	2	22				53	13	52	33	83		32	3	3	
1	55	22	13					2	8	25	15	12	8	3	3	20	۰.	53		<u>t:</u>	10	5	8			2	5
	1	2	-	2	Ψ.	-	Ξ.	3	۰.		Ξ.	1	2					٠.									

Changing the regulation

1- Connect the reader with the internal USB-C connector.





To access the interface card of the ATX reader, unscrew the 4 nuts of the antenna plate, gently lift the plate so as not to damage the cable.

- 2- Open STid SESProUHF.
- 3- On the "SSCP" tab, enter the following settings and the number of the communication port to which the reader is connected:

STid - SESPro - Options/SSCP		– 🗆 X
Options		SSCP Security mode
Home	SSCP	SSCP Security mode Plain ~
Preferences		Change Keys
	Communication mode	Change Keys OnlySoftKeys
SSCP	RS232 V AutoConnect	Signature 2087754B7547481094BE !
Firmware		Encryption E74A540FA07C4DB1B46421126DF7AD36
t Reader	Port COM ?	
MIFARE Classic / Plus	Baudrate 115200 V	
MIFARE DESFire EvX	Deadea Mile D	ConfAuthenticate
MIFARE Ultra Light / C	Reader Nb 0	Authenticate
€ CPS3		Key Index
Biometrics		Signature -1 💌 Mode None 🗸
∎ Image Scan	Timeouts (ms)	
Bluetooth / NFC	Long	Encryption -1 💭 Value 1
125 kHz	Total read 2000 🚔	
■ LEGIC		
	Byte read 2000 🖨	ResetAuthenticate
Reader		
Reader InOut		SetAllowedCommModes Signed AND Encipher
Reader RF	Console 🖸 Spy 🗗	Plain Signed Encryption
Mandatory		
Custom	Results	Activity
Async/Auto/EPCMap	command result	
	LESUI0	
€ OSDP		
		Quit
		Quit



4- On the "Reader RF" tab, select the required regulation according to the table below:

Reader reference	Authorized / accepted regulation
ATX/ATX4-W 5 x (Upper-band)	FCC Australia New Zealand
ATX/ATX4-W 4 x (Lower-band)	ETSI- Lower-band Morocco

A Lower-band reader will refuse the FCC/Australia/New Zealand regulations. An Upper-band reader will refuse the ETSI-Lower-band / Morocco regulations.

ChangeRegulation	
FCC ~	
Reboot	

- 5- Tick the "Reboot" box
- 6- Click "ChangeRegulation".

Note: The reader must be restarted to apply changes to the regulation.

This command must only be used to adjust the regulation of the reader to the regulation in force in the country of use.

The "Custom" setting must only be used with the prior agreement/support of STid. Otherwise, deterioration or malfunctions may occur, or the emissions may not comply with the regulation in force.

The agreement/support of STid for the definition of the "Custom" regulation settings does not relieve the user of its obligation to check the technical and administrative compliance with the regulation of the territory where the product is used.



26	20	8	8		8	3	8	6.3	5	8.3	R.	9	9.3		1		12	62	85	23	8	81	3	8	8 I	8
55	83	2		2		5	11	5.5	5	3.1	8	2	2				13	11	52	35	83		32		8.1	5
55	22	12	2		1	-	2	8.3	5	5	2	8	2	5		1	5		11	10	2	8		*	5.1	5
÷.	27	-	2	Ψ.	-	Ξ.	2	۰.	5	τ.	π.	÷.,			-										•	

Operating modes



Operation according to the SSCP protocol

(SSCP_UHF_INDUS_US_Vxx)

USB-C

Keyboard emulation operation



TCP operation with Switch POE+

Refer to the specifications of the SSCP_UHF_INDUS_US_Vxx protocol for the commands.

Reader connection

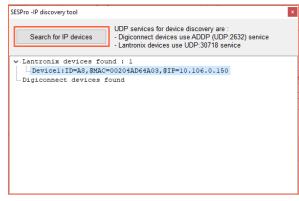
Connect the reader to the Swith POE + (Use a PSE (Power Sourcing Equipment) compatible with the IEEE 802.3at. 2009 standard.)

Searching for the IP address of the reader

- 1- Open STid SESProUHF.
- 2- On the "SSCP" tab, click

STid - SESPro - Options/SSCP	CP	– 🗆 X
= Options Home	SSCP Security mode Plain	~
Preferences SSCP	Communication mode Change Keys OnlySoftKeys TCP ZAutoConnect Signature AutoF754B7547421054BE	
Firmware Reader	IP dest	1126DF7AD36
Settings		onfAuthenticate
ARC	Server Port Key Index	de None V
ARC Conf UHF ARC Screen	Timeouts (ms)	
Autonomous	Total read 2000 ResetAuthenticate	
Autonomous Conf		AND Encipher
Asynchronous Private		
RSA PKCS		
MIFARE Classic / Plus	Results	
Security Level 0	command	Activity
Classic / SL1	result	
SL1 Contents		Quit
SL1 Tests	v	

3- The window below opens. Click "Search for IP devices" to detect the reader.





4- The list of detected readers appears.

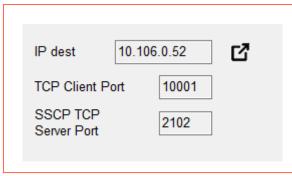
SESPro -IP discovery tool	
Search for IP devices	UDP services for device discovery are : - Digiconnect devices use ADDP (UDP:2632) service - Lantronix devices use UDP:30718 service
✓ Lantronix devices four	nd : 2
Devicel:ID=6X,@MAC=	0080A3E23804,@IP=10.106.0.52
Device2:ID=A8,@MAC=	00204AD64A03,@IP=10.106.0.150
Digiconnect devices for	ound

Note: if no devices appear, refer to "Reset and reconfiguration of the Ethernet module" section.

5- Check that the MAC address matches the address of the connected module.



6- Enter the IP address retrieved above in SESProUHF. Enter "10001" in the "TCP Client Port" field.





$\overline{\Sigma}$	2.5	(\mathbf{x})	\mathbb{R}^{2}	$\langle t \rangle$	$\langle t \rangle$	(\mathbf{s})	(\mathbf{x})	(0)	16	25	18	\mathbb{R}^{n}	2	28	×.	0.00		${\mathfrak f} \geq$	(\cdot)	(0)	33	\mathbb{R}^{2}	\otimes	÷.	(\mathbf{x})		(0)	18
\mathbb{S}^{2}	55	\mathbb{S}	\mathbb{R}^{2}	(2)	\mathbb{R}^{2}	\sim	15	35	(2)	35	65	25	\mathbb{C}^{n}	32		10		\mathbb{S}^{2}	\mathbb{S}^{2}	55	53	83	$\left \mathbf{f} \right $	37	(\mathbf{z})	3	55	
10	50	22	72						8	25	10	17	32	2	3	120		53		51		2	8				22	15
*1	10	27	-	2	Ψ.	-		2	Ψ.		1	17	8				*	٠.	۰.				1	5		•		9

Reset and reconfiguration of the Ethernet module



- 1- Put the J7-INIT jumper in the 1-2 position, then put the J6-RESET jumper in the 1-2 position.
- 2- Return the J6-RESET jumper to the initial 2-3 position.



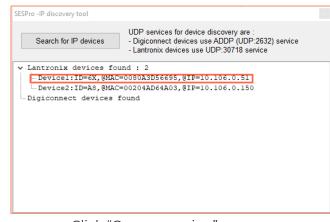
The orange Ethernet LED flashes once a second (500ms ON / 500MS OFF). Wait for 5 seconds.

3- Return the J7-INIT jumper to the initial 2-3 position.



The orange Ethernet LED flashes. As soon as it remains permanently on, the module has been reset.

- 4- Repeat steps 1, 2 and 3.
- 5- Double-click on the device.



6- The window below opens. Click "Open a session".

Ouvrir une session	
http://10.106.0.51 Votre connexion à ce site n'e	st pas privée
Nom d'utilisateur	
Mot de passe	
	Ouvrir une session Annuler



- 7- Go to "Channel 1 / Serial settings".

xPico [°]	110	
<u>ය</u>		Device Status
Network		
Server		
Serial Tunnel Hostlist Channel 1	Product Information	
Serial Settings	Firmware Version:	V6.11.0.10
Connection	Build Date:	29-Dec-2017
Channel 2	Network Settings	
Serial Settings Connection	MAC Address:	00-80-A3-D5-66-95
Configurable Pins	Network Mode:	Wired
Apply Settings	DHCP HostName:	< None >
Apply settings	IP Address:	10.106.0.51
	Default Gateway:	10.106.0.250
Apply Defaults	DNS Server:	10.106.0.101
Apply Defaults	MTU:	1400
	Line settings	
	Line 1:	RS232, 9600, 8, None, 1, None.
	Line 2:	RS232, 9600, 8, None, 1, None.

8- Change the baud rate to 115200 and click "OK".

A	Ser	ial Settings
Network	Channel 1	
Server	Disable Serial Port	
Serial Tunnel	Disable Senar For	
Hostlist	Port Settings	
Channel 1 Serial Settings	Protocol: RS232 V	Flow Control: None 🗸
Connection	Baud Rate: 115200 V Data Bits: 8	Parity: None Stop Bits: 1
Channel 2		
Serial Settings	Pack Control	
Connection Configurable Pins	Enable Packing	
Apply Settings	Idle Gap Time: 12 msec 🗸	
	Match 2 Byte Sequence: Yes No	Send Frame Immediate: 🔵 Yes 🖲 No
	Match Bytes: 0x 00 0x 00	Send Trailing Bytes: None One Two
Apply Defaults	(Hex)	Send training bytes. None One Ofwo
	Flush Mode	
	Flush Input Buffer	Flush Output Buffer
	With Active Connect: O Yes O No	With Active Connect: O Yes 🖲 No
	With Passive Connect: O Yes 🖲 No	With Passive Connect: O Yes 💿 No
	At Time of Disconnect: O Yes O No	At Time of Disconnect: O Yes O No
		OK

9- Go to "Channel 2 / Serial settings" and repeat the same operation.

"Done!" appears to the right of "OK".

xPico [®]	110	
4	Seria	l Settings
Network	Dhannel 2	
Server Serial Tunnel	Disable Serial Port	
Senal Tunnel Hostlist	Port Settings	
Channel 1	Protocol: RS232 V	Flow Control: None
Serial Settings Connection	Baud Rate: 115200 V Data Bits: 8 V	Parity: None V Stop Bits: 1 V
Connection Channel 2	Data Dits. 0 V	Parky. None V Stop Bis. 1 V
Serial Settings	Pack Control	
Connection	Enable Packing	
Configurable Pins		
Apply Settings	Idle Gap Time: 12 msec 🗸	
	Match 2 Byte Sequence: Yes INO	Send Frame Immediate: Yes No
Apply Defaults	Match Bytes: 0x 00 0x 00 (Hex)	Send Trailing Bytes: None One Two
	Flush Mode	
	Flush Input Buffer	Flush Output Buffer
	With Active Connect: O Yes No	With Active Connect: Yes No
	With Passive Connect: O Yes No	With Passive Connect: O Yes No
	At Time of Disconnect: O Yes No	At Time of Disconnect: O Yes No
		OK Done!



10- Click "Apply Settings".

xPico [°]	110 LANTRONIX°
谷 Network Server	Please wait while the configuration is saved
Serial Tunnel	The unit will reboot in order for the settings to be applied.
Hostlist Channel 1 Serial Settings Connection Channel 2 Serial Settings Connection	
Configurable Pins Apply Settings	
Apply Defaults	

11- Check that the baud rates are 115200.

×Pico [°]	110	LANTRONIX°						
<u>ቆ</u>		Device Status						
Network								
Server								
Serial Tunnel Hostlist Channel 1	Product Information							
Serial Settings	Firmware Version:	V6.11.0.10						
Connection	Build Date:	29-Dec-2017						
Channel 2	Network Settings							
Serial Settings Connection	MAC Address: 00-80-A3-D5-66-95							
Configurable Pins	Network Mode:	Wired						
Apply Settings	DHCP HostName:	< None >						
rippiy ootango	IP Address:	10.106.0.51						
	Default Gateway:	10.106.0.250						
Apply Defaults	DNS Server:	10.106.0.101						
Apply Delauits	MTU:	1400						
	Line settings							
	Line 1:	RS232, 115200, 8, None, 1, None.						
	Line 2:	RS232, 115200, 8, None, 1, None.						



Communication test

In STid - SESProUHF, enter the IP address, enter "10001" in "TCP Client Port" and set the Timeout to "Long".

STid - SESProUHF - Options/SSC	р Р	– 🗆 X
Options		
Home	SSCP	SSCP Security mode Plain ~
Preferences	Communication mode	Change Keys OnlySoftKeys
SSCP	TCP V AutoConnect	Signature A087754B7547481094BE !
Firmware		Encryption E74A540FA07C4DB1B46421126DF7AD36
E Reader	IP dest 10.106.0.51	
MIFARE Classic / Plus	TCP Client Port 10001	
MIFARE DESFire EvX MIFARE Ultra Light / C	SSCP TCP 2102	Authenticate
CPS3	Server Port	Key Index
Biometrics	– Timeouts (ms)	Signature -1 Signature None V
Image Scan Bluetooth / NFC	Long	Encryption -1 🐳 Value 1
125 kHz LEGIC	Total read 2000	
	Byte read 2000	ResetAuthenticate
Reader		
Reader InOut		SetAllowedCommModes
Reader RF	Console 🖸 Spy 🗗	Plain Signed Encryption
Mandatory		
Custom	Results	Activity
Async/Auto/EPCMap	result	
OSDP		
		Quit

Run a "GetInfos" in the "Reader" tab. The response from the reader appears in the "Results" window.

STid - SESProUHF - UHF/Reade		- 🗆 X
Options		
Home	GetReaderType	SSRelayConfig4
Preferences	GetSerialNumber	Save1 Save2 Save3 Save4
SSCP	00000	⊘OpenD1 ⊘OpenD2 ⊘OpenD3 ⊘OpenD4 SSRelayAction4
Firmware	GetInfos	Action1 Action2 Action3 Action4
Reader MIFARE Classic / Plus MIFARE DESFire EvX MIFARE Ultra Light / C	AutoBaud Baudrate	SSRelayState4
	BuzzerSoundLevel Level 10	OutputRGB
Biometrics Image Scan		OutputRGB
Bluetooth / NFC		Red Green Blue
■ 125 kHz	Туре	FF FF FF
	SetSerial&HWType	
Reader	LinkBudget 03 EASASASA O TCP	
Reader InOut	Datain	LED duration Buzzer duration Spectre LED Adr
Reader RF	Transceive	
Mandatory		
Custom	Results Reader:GetInfos:0000:187(ms)	Activity
Async/Auto/EPCMap	Reader:GetInfos:0000110/(ms) Version is 11 Baudrate is 115200 bit/s	
GOSDP	Address 45 is 0 Address 45 is 0 Fower supply (Volt) : 29.4	Quit



TCP operation: direct connection to the PC (without Switch / test mode)

Refer to the specifications of the SSCP_UHF_INDUS_US_Vxx protocol for the commands.

Reader connection

- Power the reader via Power jack
- Connect the reader via TCP-IP to the computer

Computer network settings

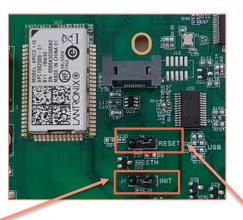
Change the network settings of the computer so that it can communicate on the Lantronix module's default IP address which is 169.254.X.X

Conceined result of configuration Network of the connection Network of the connection <t< th=""><th>Connexions réseau</th><th>– – ×</th></t<>	Connexions réseau	– – ×
Concestor réseu Bluctootti Differing Differing <t< td=""><td>← → ∨ ↑ 😰 > Panneau de configuration > Réseau et Internet > Connexions réseau</td><td></td></t<>	← → ∨ ↑ 😰 > Panneau de configuration > Réseau et Internet > Connexions réseau	
Non connect! Meanse 200 identifié Cibic réseau non connect! Déactivé Formet 3 Non connect! Reades COB Sandy Controlle Cibic réseau non connect! Déactivé Formet 3 Cibic réseau non connect! Cibic réseau non connect! Sanda Cobis Sandy Controlle Formet 4 dagter (Déactivé Sanda Cobis Sandy Controlle Formet 4 dagter (Déactivé Cibic réseau Noncolle Sanda Cobis Sandy Controlle Formet formet Sanda Cobis Sanda Formet S	Organiser 🔻 Désactiver ce périphérique réseau Diagnostiquer cette connexion Renommer cette c	connexion Afficher le statut de cette connexion »
Cible rissun no content was-AC 9462 Sected USS GEF FamilyC Section de rissun de r	Non connecté Bluetooth Device (Personal Area Réseau non identifié Realtek PCIe GbE Family Controller	e réseau non connecté net Virtual Ethernet Adapter (Fortinet SSL VPN Virtual Ethernet
7 éferent(s) 1 éferent sélectome	Cáble réseau non connecte Proprietes de Eurerie Realtek USB GBE Family Co Gestion de réseau Patage	
Ceffe connection ulline les éléments auvants : Général Ceffe pour les réseaux Microsoft Expansifiers UP pouvent être déterminé automatiquement à voire réseaux Microsoft Petro Pour les réseaux Microsoft Expansifiers UP pouvent être déterminé automatiquement à voire réseaux Microsoft Petro Pour les réseaux Microsoft Expansifiers UP pouvent être déterminé automatiquement à voire réseaux Microsoft Petro Pour les réseaux Microsoft Expansifiers UP pouvent être déterminé automatiquement à voire réseaux Microsoft Petro Pour les déterses de sour voire de multiplexage de cater réseau Microsoft Otherri rune adresse P automatiquement Petro Pour les déterses de sour veise Expansifiers UP pouvante : Microsoft Petro Pour les déterses de sour veiseux DNS automatiquement Otherri rune adresse de sour-veiseux DNS automatiquement Petro Pour les déterses de serveur DNS automatiquement Otherri rune adresse de serveur DNS automatiquement Otherri rune adresse de serveur DNS automatiquement Serveur DNS préfié : Serveur DNS automatiquement Otherri rune adresse de serveur DNS automatiquement Serveur DNS automatiquement Serveur DNS automatiquement Otherri rune adresse de serveur DNS automatiquement Serveur DNS automatiquement Serveur DNS automatiquement Otherri rune adresse de serveur DNS automatiquement Serveur DNS automatiquement Serveur DNS		Propriétés de : Protocole Internet version 4 (TCP/IPv4)
7 element(c) 1 element selection Valuer Or instantance OK Image: Control Protocol/Internet Protocol/In	Cette connexion utilise les éléments auvants :	Les paramètres IP peuvent être déterminés automatiquement si votre réseau le permet. Sinon, vous devez denander les paramètres IP apropriés à votre administrateur réseau.
7 élément(s) 1 élément sélectionne © triageour © tria	Trotocole Internet version 4 (TCP/IP-V4) Trotocole de multiplexage de care releasu Microsoft Installer Desinstaller Propriété	Adresse IP : 165 254 . 0 . 1 Masque de sous réseau : 25 255 . 255 . 0
7 élément () [] élément sélectionn: A President selectionn: Sécurité et maintenance ↓ Son ☐ Valder les paranètres en quittant Avancé	de réseau étendu par défaut pemettant la communication entre différents réseaux interconnectés.	Utiliser l'adresse de serveur DNS suivante : Serveur DNS préféré :
Pare	7 element(s) 1 element selectionme Cooperation Securité et maintenance Affic Téléphone et modem	Valder les paramètres en quittant Avencé



10	85	8	8	8		8	3	3	8	2	8	R.	9	3	10		2	63	85		8	81	÷.	8	8	6	8
15	55	8	2		÷.		5	11	1	8	65	15	2	2			53	13	52	33	83		1	8	5	8.1	5
	55	22	12		1				8	2	10	3	2	2	201	10	8		<u>t:</u>	10	5	8				5.3	5
	10	2	-	÷.	Ψ.		Ξ.	2	τ.			14					÷	τ.	÷.		-	÷.,	÷.	Ξ.			2

RESET of the Ethernet module



- 1- Put the J7-INIT jumper in the 1-2 position, then put the J6-RESET jumper in the 1-2 position.
- 2- Return the J6-RESET jumper to the initial 2-3 position.



The orange Ethernet LED flashes once a second (500ms ON / 500MS OFF). Wait for 5 seconds.

3- Return the J7-INIT jumper to the initial 2-3 position.

The orange Ethernet LED flashes. As soon as it remains permanently on, the module has been reset.

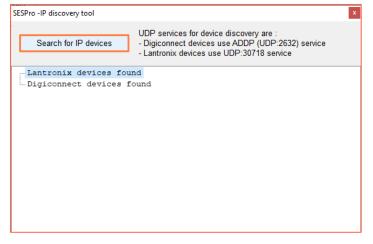


Searching for the reader on the network

- 1- Open STid SESProUHF.
- 2- In « SSCP » enter TCP Client Port 10001 and SSCP TCP Server Port 2102 then click on

STid - SESProUHF - Options/SS	CP	– 🗆 X
= Options		
Home	SSCP	SSCP Security mode Plain ~
Preferences	Communication mode	Change Keys OnlySoftKeys
SSCP	TCP	Signature A087754B7547481094BE !
		Encryption E74A540FA07C4DB1B46421126DF7AD36
Firmware	IP dest 169.254.170.30	
Reader		
MIFARE Classic / Plus	TCP Client Port 10001	
MIFARE DESFire EvX	SSCP TCP	ConfAuthenticate
MIFARE Ultra Light / C	Server Port 2102	Authenticate
CPS3		Key Index
Biometrics		Signature -1 🚔 Mode None 🗸
■ Image Scan	Timeouts (ms)	Encryption -1 Nalue 1
Bluetooth / NFC	Default	Encryption -1 Value 1
■ 125 kHz	Total read 150	
LEGIC		
UHF	Byte read 300	ResetAuthenticate
Reader		
Reader InOut		SetAllowedCommModes Signed AND Encipher
Reader RF	Console 🗹 Spy 🖸	Plain Signed Encryption
Mandatory		
Custom	Results	Activity
Async/Auto/EPCMap	result	3 ¹¹ /2
	J	202
■ OSDP		
		Quit
		quit

3- The window below opens, click on « Search for IP devices » to detect the reader.





4- The list of detected readers appears:

SESPro -IP discovery tool	×
Search for IP devices	UDP services for device discovery are : - Digiconnect devices use ADDP (UDP:2632) service - Lantronix devices use UDP:30718 service
✓ Lantronix devices four	1d : 1
Devicel:ID=6X,@MAC=	0080A3E23850,@IP=169.254.170.30

Note: if no devices appear, refer to "Reset and reconfiguration of the Ethernet module" section.

5- Check that the MAC address matches the address of the connected module.





Computer network settings

Return the computer to the default IP address so that it can communicate with the Lantronix via the internet:

🕝 Google Traduction 👩 iCertifi - mise à jour 🎽 Entreprises 📑	🗧 Outils 🎽 Sa connactor nour accéder à ca sita	
Connexions réseau		- 🗆 X
\leftrightarrow \rightarrow \checkmark \bigstar Panneau de configuration \Rightarrow Réseau et Internet \Rightarrow	Connexions réseau v Ö	Rechercher dans : C 🔎
Contractical & Defact-base conditividuo a decail Diamondo e Configuration Proprietes de Ethernet Gestion de réseau Partage Connexion en utilisert : Partage Ethernet Configurer. Cette connexion utilise les éléments auivants : Cette connexion d'incomparison d'incomparison d'incomparison et de	Afficher le statut de cette connexion Afficher le statut de cette connexion Carbonardian Carbonar	\$F • 💷 😧
7 élément(s) 1 élément sélectionné	Passerelle par défaut :	ii 9

Configuration of the Ethernet module

1- In STid - SESProUHF double-click on the Device:



2- The window below opens. Click "Open a session".

Ouvrir une session		
http://10.106.0.51 Votre connexion à ce site	n'est pas privée	
Nom d'utilisateur		
Mot de passe		
	Ouvrir une session	Annuler



- 3- Go to "Channel 1 / Serial settings".

xPico [°]	110	
<u>ය</u>		Device Status
Network		
Server		
Serial Tunnel Hostlist Channel 1	Product Information	
Serial Settings	Firmware Version:	V6.11.0.10
Connection	Build Date:	29-Dec-2017
Channel 2	Network Settings	
Serial Settings Connection	MAC Address:	00-80-A3-D5-66-95
Configurable Pins	Network Mode:	Wired
Apply Settings	DHCP HostName:	< None >
Apply settings	IP Address:	10.106.0.51
	Default Gateway:	10.106.0.250
Apply Defaults	DNS Server:	10.106.0.101
Apply Defaults	MTU:	1400
	Line settings	
	Line 1:	RS232, 9600, 8, None, 1, None.
	Line 2:	RS232, 9600, 8, None, 1, None.

4- Change the baud rate to 115200 and click "OK".

☆	Serial Settings
Network	Channel 1
Server	Disable Serial Port
erial Tunnel	
Hostlist	Port Settings
Channel 1 Serial Settings	Protocol: RS232 V Flow Control: None V
Connection	Baud Rate: 115200 V Data Bits: 8 V Parity: None V Stop Bits: 1 V
hannel 2	
Serial Settings Connection	Pack Control
Connection Configurable Pins	Enable Packing
Apply Settings	Idle Gap Time: 12 msec 🗸
apply settings	
	Match 2 Byte Sequence: Yes No Send Frame Immediate: Yes No
Apply Defaults	Match Bytes: 0x 00 0x 00 Send Trailing Bytes: None One Two
	(Hex)
	Flush Mode
	Flush Input Buffer Flush Output Buffer
	With Active Connect: Ves No With Active Connect: Ves No
	With Passive Connect: Ores No With Passive Connect: Ores No
	At Time of Disconnect: O Yes O No At Time of Disconnect: O Yes O No
	At time of Disconnect. O yes O No At time of Disconnect. O yes O No
	ОК

5- Go to "Channel 2 / Serial settings" and repeat the same operation.

×Pico [®]	110	LANTRONI <mark>X</mark> °
4	Serial	Settings
Network Server Serial Tunnel Hostlist Channel 1 Serial Settings Connection	Channel 2 Disable Serial Port Port Settings Protocol: RS232 v Baud Rate: 115200 v Data Bits: 8 v	Flow Control: None Party: None Stop Bits: 1
Channel 2 Serial Settings Connection Configurable Pins Apply Settings	Pack Control Enable Packing Idle Gap Time: 12 mase	
Apply Defaults	Match 2 Byte Sequence: Yes No Match Bytes: 0x 00 0x 00 (Hex)	Send Frame Immediate: Yes ® No Send Trailing Bytes: ® None One Two
	With Active Connect: Yes @ No With Passive Connect: Yes @ No At Time of Disconnect: Yes @ No	Flish Output Buffer With Active Connect. Ves No With Passive Connect. Ves No Al Time of Disconnect. Ves No K



6- Click "Apply Settings".

xPico [®]	110 LANTRONIX°
습 Network Server	Please wait while the configuration is saved
Serial Tunnel Hostlist Channel 1	The unit will reboot in order for the settings to be applied.
Serial Settings Connection Channel 2 Serial Settings	
Connection Configurable Pins Apply Settings	
Apply Defaults	

7- Check that the baud rates are 115200.

×Pico°	110	
ຜ		Device Status
Network		
Server		
Serial Tunnel Hostlist Channel 1	Product Information	
Serial Settings	Firmware Version:	V6.11.0.10
Connection	Build Date:	29-Dec-2017
Channel 2	Network Settings	
Serial Settings Connection	MAC Address:	00-80-A3-D5-66-95
Configurable Pins	Network Mode:	Wired
Apply Settings	DHCP HostName:	< None >
Apply settings	IP Address:	10.106.0.51
	Default Gateway:	10.106.0.250
Amely Defaults	DNS Server:	10.106.0.101
Apply Defaults	MTU:	1400
	Line settings	
	Line 1:	RS232, 115200, 8, None, 1, None.
	Line 2:	RS232, 115200, 8, None, 1, None.

The reader is ready to communicate with the computer.



Communication test

In STid - SESProUHF enter the IP adresse, "10001" in "TCP Client Port" and set the Timeout to "Long"

Options		
lome	SSCP	SSCP Security mode Plain ~
Preferences	Communication mode	Change Keys
SCP	TCP V AutoConnect	Signature A087754B7547481094BE !
501		
irmware		Encryption E74A540FA07C4DB1B46421126DF7AD36
Reader	IP dest 10.106.0.51	
	TCP Client Port 10001	
	Server Port 2102	Authenticate
		Key Index
		Signature -1 💽 Mode None 🗸
	Timeouts (ms)	
	Long	Encryption -1 Value 1
	Total read 2000 🖨	
EGIC		
JHF	Byte read 2000 🚔	ResetAuthenticate
eader		
leader InOut		SetAllowedCommModes Signed AND Encipher
Reader RF	Console 🗗 Spy (Plain Signed Encryption
landatory		
ustom	Results	Activity
(A) (EDOM	command	
sync/Auto/EPCMap	result	2012 2012
		Quit

Run a "GetInfos" in the "Reader" tab. The response from the reader appears in the "Results" window.

Options		
Home	GetReaderType	SSRelayConfig4
Preferences	GetSerialNumber	Save1 Save2 Save3 Save4
SSCP	(0000)	⊘ OpenD1 ⊘ OpenD2 ⊘ OpenD3 ⊘ OpenD4 SSRelayAction4
Firmware	GetInfos	Action1 Action2 Action3 Action4
Reader MIFARE Classic / Plus MIFARE DESFire EvX	AutoPaud Baudrate	SSRelayState4
MIFARE Ultra Light / C		
CPS3 Biometrics	BuzzerSoundLevel Level 10	OutputRGB
	Save	Red Green Blue
	SetSerial&HWType	FF FF FF
UHF	LinkBudget 03 BABABABA OTCP	
Reader InOut	Datain	LED duration Buzzer duration Spectre LED Ad
Reader RF	Transceive	
Mandatory]	
Custom	Reader:GetInfos:0000:187(ms)	Activity
Async/Auto/EPCMap	Version is 11 Baudrate is 115200 bit/s	
OSDP	Address 485 is 0 Power supply (Volt) : 25.4	
	L	Quit



Keyboard emulation operation

As soon as a USB cord is connected between the USB-C output and a host, the reader switches to an autonomous mode, in which it performs inventories and sends all the EPCs of every detected tag in an active window.

The keyboard emulation settings can be configured using the internal USB-C connector:

- Using a terminal capable of sending ASCII characters on the serial connection of the internal USB-C. The commands must end with CR/LF (0x0D 0x0A). The reader responds "o" and "k" in ASCII when the frame is successfully retrieved.
- Using the STid USB Wedge tool supplied on the USB key. Refer to Appendix 1.

ASCII command	Hexa data	Description of the command	Default settings
language	1 byte of data: AZERTY → 0x00 QWERTY → 0x01	Changes the keyboard layout.	AZERTY
casing	1 byte of data: Uppercase → 0x00 Lowercase → 0x01	Chooses whether the alphabetical characters are displayed on the screen in uppercase or lowercase.	Uppercase
numloc	1 byte of data: Num keypad → 0x00 Num key → 0x01	Chooses which numerical keys are used: those on the numerical keypad or those above the alphabetical keys.	Num keypad
info	No data	Shows the current configuration (version, baud rate, etc.).	
charreturn	1 byte of data: Deactivated → 0x00 Activated → 0x01	Switches the carriage return on or off.	Activated
reset	No data	Restores the default settings.	

List of the configurable settings:

Headquarters / EMEA

13850 Gréasque, France Tel.: +33 (0)4 42 12 60 60

PARIS-IDF Office 92290 Châtenay-Malabry, France Tel.: +33 (0)1 43 50 11 43 **STid UK Ltd. LONDON** Hayes UB11 1FW, UK Tel.: +44 (0) 192 621 7884

STid UK Ltd.

Gallows Hill, Warwick CV34 6UW, UK Tel.: +44 (0) 192 621 7884 NORTH AMERICA Office Irving, Texas 75063-2670, USA Tel.: +1 469 524 3442

LATINO AMERICA Office Cuauhtémoc 06600 CDMX, México Tel.: +521 (55) 5256 4706

info@stid.com www.stid-industry.com