

Quick User Guide

SPECTRE Industry (SMI) – SPECTRE Extrem (SME)





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55	83	\mathbb{R}^{2}	(2)	\mathbb{R}^{2}		\mathbb{S}^{2}	$\{ \boldsymbol{\gamma} \}$	(2)	35	65	$\mathbb{C}^{n}_{\mathcal{C}}$	\sim	32				53	23	25	33	83	(2)	\mathbb{R}^{2}	100	(\cdot)	55	3
53	22	13	23				22	88	25	63	17	32	\mathbb{C}^{n}	1			53	11	51	50	22	8		1		22	15
		-	2	۳.	-		3	Υ.		1	17	2	1			*	٠.			-	-	1		-			2

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55	83	2		2		35	11	÷	8	65	15	2	2				53	12	52	33	83		22	2		ð	
55	22	12					2	8.3	3	0	1	12	2	1	10	1	52		<u>†1</u>	10	2	8		*	-	2	2
1	27	Ξ.	2	۳.	-	Ξ.	2	۳.	5	τ.	17	S			-	÷.,	٠.	۰.	1		-	÷.	5	Ξ.	•	τ.	٩.

Factory settings

			SMI	SM	1E
Communication I	mode		Ethernet	RS232 or	Ethernet
Baud rate			115200	1152	.00
RS485 address				0	
Hardware conf outputs (OutputConf)	iguration of the		Output ● V+ ○ OC	type	
Status of the outp (OutputConf)	outs		State ● Cl	e losed pened	
Autonomous_Ou	tput		Autonomous_Output EPC output @ MSB @ LSB Output Len 12 EPC	NoLeadingZeros	(
RF settings	Upper-band	A 0	ScanDuration x10ms 20	Power 263	Antenna 1
	Lower-band	A 0	ScanDuration x10ms 20	Power 268	Antenna 1



Changing the communication mode

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



- 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
Preferences	Communication mode	Change Keys OnlySoftKeys
SSCP	RS232 ~ AutoConnect	Signature A087754B7547481094BE !
Firmware	Port COM 2	Encryption E74A540FA07C4DB1B46421126DF7AD36
Reader MIFARE Classic / Plus	Baudrate 115200 V	
MIFARE DESFire EvX MIFARE Ultra Light / C	Reader Nb 0	Authenticate
CPS3 Biometrics		Key Index
⊞ Image Scan ⊞ Bluetooth / NEC	Timeouts (ms)	Encryption -1 To Value 1
■ 125 kHz	Total read 2000	
	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	result	
₩ OSDP		Quit



- 4- On the "Reader" tab, enter "LinkBudget 0...3": 8A8A8A8A (for SMx)
 - 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			- 🗆 X	
Options				
Home	5~~~	GetReaderType	SSRelayConfig4	
Preferences	्रद्धम	GetSerialNumber	Save1 Save2 Save3 Save4	
SSCP	00000		✓ OpenD1 ✓ OpenD2 ✓ OpenD3 ✓ OpenD4	
			SSRelayAction4	
Firmware	GetInfos	SetBaudRate	Action1 Action2 Action3 Action4	
Reader	AutoBaud	Baudrate	SSRelayState4	
MIFARE Classic / Plus	AutoPort	38400 ~		
MIFARE DESFIRE EVX				
GPS3 GPS3				
Biometrics	BuzzerSoundLevel	Level 10	OutputRGB	
	Save			
Bluetooth / NFC			Red Green Blue	
125 kHz		Type		
LEGIC	SetSerial&HWType	● RS232		
■ UHF	LinkBudget 0 3 848	ORS485		
Reader		OTCP		
Reader InOut	Dataln		LED duration Buzzer duration Spectre LED Adr	
Reader RF	Transceive			
Mandatory				
Custom	Results		Activity	
Async/Auto/EPCMap	result		2415	
■ OSDP			21/2	
			Quit	
			Quit	



26	33	8	(0)	$\langle \eta \rangle$		3	19	18	28	18	2	2	28	. •		5	$\{ \cdot \}$	(0)		83	31	10				3
55	83	22				15	11	(π)	35	65	15	12	32			23	13	25	35	83		32	22		St	1
55	22	12						8	2	10	17	12	2	1	1	53	11	51	10	2	8				2	1
1	27	-	2	Ψ.	-	Ξ.	2	۰.		1	17	2			*	٠.	۰.		-	-	1	5	Υ.	•		3

Changing the regulation

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



- 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		SSCD Security mode
Home	SSCP	
Preferences	Communication mode	Change Keys OnlySoftKeys
SSCP	RS232 V AutoConnect	Signature A087754B7547481094BE !
Firmware		E74A540FA07C4DB1B46421126DF7AD36
Reader	Baudrate 115200 V	
MIFARE Classic / Plus MIFARE DESFire EvX MIFARE Ultra Light / C	Reader Nb 0	Authenticate
CPS3 Biometrics		Key Index
Image Scan	Timeouts (ms)	Encountion -1 Value 1
■ Bluetooth / NPC	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	Quit



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

Reader reference	Authorized / accepted regulation
	FCC
SMI/SME-W 5 x (Upper-band)	Australia
	New Zealand
SMI/SME-W/4x (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.



Operating modes

SMI



SME



TCP / RS232 / RS485 Operation according to the SSCP protocol (SSCP_UHF_INDUS_US_Vxx)



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		- 🗆 X
Options		
Home	SSCP	SSCP Security mode
Preferences	Communication mode	Change Keys OnlySoftKeys
SSCP	TCP ~ AutoConnect	Signature A087754B7547481094BE
Firmware	IP dest	Encryption E74A540FA07C4DB1B46421126DF7AD36
Reader		
Settings	SSCP TCP	ConfAuthenticate
ARC	Server Port	Authenticate Key Index
ARC Conf UHF	Timeouts (ms)	Signature -1 Mode None ~
ARC Screen	Long	Encryption -1 Value 1
Autonomous	Bute used 2000	Poset&uthenticate
Autonomous Conf		
Asynchronous		SetAllowedCommModes
Private	Console 🖸 Spy 🗗	Plain Signed Encryption
RSA PKCS		
MIFARE Classic / Plus		
Security Level 0	Hesults command	Activity
Classic / SL1	result	S. K.
SL1 Contents		Quit
SL1 Tests	, L	

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

ESPro -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 fou 	nd : 1	_
Devicel:ID=A8,@MAC=	=00204AD64A03,@IP=10.106.0.150	
Digiconnect devices f	ound	



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 fou	nd : 2	
Devicel:ID=6X,@MAC=	=0080A3E23804,@IP=10.106.0.52	
Device2:ID=A8,@MAC=	=00204AD64A03,@IP=10.106.0.150	
Digiconnect devices f	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.

IP dest	10.10	6.0.52	ď
TCP Client Po	ort	10001	
SSCP TCP Server Port		2102	



10	26	2	8	8			3	35	16	3	16	\mathbb{R}^{2}	2	28		110		${\mathbb P}_{n}^{(i)}$	12	80	23	25	31	8		10	3
15	55	8	2		5		5	11	11	8	65	35	12	52				53	13	52	35	83		37	33	S.	1
	55	22	12		5				8	3	10	17	12	2	1		1	5		11	10	2	8			2	1
Ŧ.;	10	27	-	÷.	Ψ.	-	Ξ.	2	۳.	1	1	17	с.				*	÷.,	۰.	1	5	-	31	۰.			ŝ

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 sessior							
http://10.106.0.51							
Votre connexion à ce s	te n'est pas privée						
Nom d'utilisateur							
Mot de passe							
	Ouvrir une sess	sion Annuler					



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

xPico° [°]	110	LANTRONIX°					
企		Device Status					
Network							
Server							
Serial Tunnel							
Hostlist	Product Information						
Channel 1	Firmware Version:	V6 11 0 10					
Connection	Puild Date:	20 Dec 2017					
Channel 2	Natural Cattings	23-Dec-2017					
Serial Settings	Network Settings						
Connection	MAC Address:	00-80-A3-D5-66-95					
Configurable Pins	Network Mode:	Wired					
Apply Settings	DHCP HostName:	< None >					
rippiy occurgo	IP Address:	10.106.0.51					
	Default Gateway:	10.106.0.250					
A malu Defeulte	DNS Server:	10.106.0.101					
Apply Delauits	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".

<u></u>	Ser	ial Settings
Network	Channel 1	
Server	Disable Serial Port	
Serial Tunnel	Bast 0-Wara	
Hostlist	Port Settings	
Serial Settings	Protocol: RS232	Flow Control: None
Connection	Baud Rate: 115200 🗸 Data Bits: 8	✓ Parity: None ✓ Stop Bits: 1 ✓
Channel 2		
Serial Settings	Pack Control	
Configurable Pins	Enable Packing	
Apply Settings	Idle Gap Time: 12 msec 🗸	
	Match 2 Byte Sequence: Yes No	Send Frame Immediate: O Yes O No
Apply Defaults	Match Bytes: 0x 00 0x 00	Send Trailing Bytes: None One Two
	Flush Mode	
	Flush Input Buffer	Flush Output Buffer
	With Active Connect: Ores ONO	With Active Connect: O 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
	l r	ОК
	L	

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

xPico [®]	110	
4	Seria	I Settings
Network	Channel 2	
Server	Disable Serial Port	
Senal Tunnel Hostlist	Port Settings	
Channel 1	Protocol: RS232 ¥	Flow Control: None
Serial Settings	Baud Rate: 115200 w	Party: None M Stop Bits: 1 M
Connection Channel 2	Dela Dis. 0 V	Parky. None Stop bis. 1
Serial Settings	Protection of the second	
Connection	Pack Control	
Configurable Pins	Enable Packing	
Apply Settings	Idle Gap Time: 12 msec 🗸	
	Match 2 Byte Sequence: Yes No	Send Frame Immediate: Ves 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: Yes No	With Active Connect: Yes No
	With Passive Connect: O Yes No	With Passive Connect: Yes No
	At Time of Disconnect: O Yes No	At Time of Disconnect: Yes No
		OK Done!

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



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.
Hostist Channel 1 Serial Settings Connection Channel 2 Serial Settings Connection	
Configurable Pins Apply Settings	
Apply Defaults	

11- Check that the baud rates are 115200.

xPico° (110	
ຜ		Device Status
Network		
Serial Tunnel Hostlist	Product Information	
Channel 1	Firmware Version:	V6 11 0 10
Connection	Build Date:	29-Dec-2017
Channel 2	Network Settings	
Serial Settings	MAC Address:	00-80-A3-D5-66-95
Configurable Pins	Network Mode:	Wired
Apply Settings	DHCP HostName:	< None >
Apply Soungs	IP Address:	10.106.0.51
	Default Gateway:	10.106.0.250
Apply Defaults	DNS Server:	10.106.0.101
Apply Delduits	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/S	SCP	– 🗆 X
= Options		
Home	SSCP	SSCP Security mode Plain ~
Preferences	Communication mode	Change Keys
SSCP	TCP V AutoConnect	Signature A087754B7547481094BE !
Firmware	-	Encryption E74A540FA07C4DB1B46421126DF7AD36
∎ Reader	IP dest 10.106.0.51	
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	Time such (ma)	Signature -1 Mode None ~
Image Scan	- Timeouts (ms)	Encountion
	Long	
E LEGIC	lotal read 2000	
UHF	Byte read 2000 🖨	ResetAuthenticate
Reader		
Reader InOut		SetAllowedCommModes
Reader RF	Console 🗹 Spy 🗗	Plain Signed Encryption
Mandatory		
Custom	Results	Activity
Async/Auto/EPCMap	result	
I OSDP		21×
		Quit

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

STid - SESProUHF - UHF/Reade		- 0
Options		
Home	GetReaderType	SSRelayConfig4
Preferences	GetSerialNumber	Save1 Save2 Save3 Save4
SSCP		OpenD1 OpenD2 OpenD3 OpenD4
Firmware		SSRelayAction4
Timware	GetInfos SetBaudRate	Action1 Action2 Action3 Action4
Reader	AutoBaud Baudrate	SSRelayState4
MIFARE Classic / Plus	AutoPort 38400 V	
MIFARE DESFire EvX		
MIFARE Ultra Light / C		
Biographics	BuzzerSoundLevel Level 10	OutputPCP
Diometrics		OutputKGD
Bluetoeth / NEC	Save	Red Green Blue
		FF FF FF
BLEGIC	SetSerial&HWType	hex values
UHF	© RS232	
Reader	LinkBudget 03 SASASASA OTCP	
Reader InOut	Datain	LED duration Buzzer duration Spectre LED Adr
	Тгарссана	4 💌 X100ms 4 💌 X100ms -1 💌
Reader RF	Transceive	
Mandatory		
Custom	Results	
4	Reader:GetInfos:0000:187(ms)	Activity
Async/Auto/EPCMap	Version is 11 Baudrate is 115200 bit/s	3.5
OSDP	Address 485 is 0	
	Power 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

Connexions réseau		
← → × ↑ 🖳 > Panneau de configu	uration → Réseau et Internet → Connexions réseau v ひ	
Organiser 🔻 Désactiver ce périphérique	e réseau Diagnostiquer cette connexion Renommer cette connexion Afficher le statut de cette connexion »	€F ▼ 🔳 🕐
Connexion réseau Bluetooth Non connecté Bluetooth Device (Personal Area	Ethernet Réseau non identifié Réseau non identifié Ralate PCle GbE Family Controller Reseau non connecté Fortine Virtual Ethernet Adapter (al Ethernet
Câble réseau non connecté Câble réseau non connecté Realtek USB GbE Family Co	voprietés de Ethernet × tion de réseau Partage ess-AC 9462	
	Intercent en custant . Preadek PCIe GbE Family Controller Propriétés de : Protocole Internet version 4 (TCP/IPv4)	×
Cet	Ite cornesion utilae les éléments suivants : Z	
	Image of endowner et improvementers Releasur. Monsorth réseau le permet. Srom, vous d'evre d'emander les paramètres IP Image of endowner Network Montor Ret Driver approprié à votre administrateur réseau. Image of endowner de paquets Gos charais en permet.	
	Control of a control of the office office of the office offi	
D	hataller Désmitaler Propriéé Paserdle par défaut :	
	Protocole 7CP/IP (Transmission Control Protocol/Internet Protocol), Protocol de réseau étende par détait pemettant la communication entre différents réseaux interconnectés.	
7 élément(s) 1 élément sélectionne	Server DNS préféré : Server DNS auxiliare : Server DNS auxiliare :	
Affr Téléphone et	taintenance i i Son ☐ Valder les paramètres en quittant Avancé	
Pare	OK Am	uler



85	3	35	$\tilde{\mathcal{X}}$			\otimes	$\left(t \right)$	18	3	8	R	9	2	\sim	010		$f \geq$	$\{ \cdot \}$	80	(0)	\mathbb{R}^{2}	\otimes	6	(\mathbf{r})		3	3
55	83	22				35	11	(π)	35	65	35	\mathbb{C}^{n}	52		10		53	13	55	33	83	(2)	32	(\mathbf{z})		St	8
50	22	1 2						88	25	15	12	32	2	1	120	2	53		51	10	5	8		1		2	1
10	20	-	1	Ψ.	-		1.			1	17	1.0					÷		10	-	-	.47			-		÷

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
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)	
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	
R 0000	J	202
USDP		
		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	nd : 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:

Ġ Google Traduction 🛛 🚱 iCertifi - mise à jour 🎽 Entreprises 🎽	Outils 🎽 Se connecter nour accéder à ce site	
🙀 Connexions réseau		- 🗆 ×
$\leftrightarrow \rightarrow$ \checkmark \bigstar Panneau de configuration \rightarrow Réseau et Internet \rightarrow	Connexions réseau v ඊ	Rechercher dans : C 🔎
Orranicar • Déscrituer ce nérishérimus cécau Diannetieuer cett Propriétés de Ethernet Gestion de réseau Patage Connexion en utilisant : Configurer. Configurer. Reatek PCIe GbE Family Controller Configurer. Configurer. Cette connexion utilise les éléments suivants : Configurer. Configurer. Cette connexion utilise les éléments suivants : Configurer. Configurer. Cette connexion utilise les éléments suivants : Configurer. Configurer. Cette connexion utilise les éléments duivants : Configurer. Configurer. Cettroper les éléments duivants : Conflicter: NDIS 6.3 Packe Filter Diver Conflicter: NDIS 6.3 Packe Filter Diver Cetocole Intende verde consont (LTCP/I/V-4) Protocole de cauter réseau Microsoft	Arranmarion Renommer cette connexion Afficher le statut de cette connexion » Afficher le statut de cette connexion » Chernet 2 Câble réseau non connecté Fortinet Virtual Ethernet Adapter (Chernet 3 Désactivé Fortinet SSL VPN Virt Chernet 3 Désactivé Fortinet Virtual Ethernet Adapter (Propriétés de : Protocole Internet version 4 (TCP/IPV4) Ceferéral Configuration alternative Les paramètres IP pouvent être déterminés automatiquement si votre réseau le permet. Sinon, vous devez demander les paramètres IP appropriét Advise administrative réseau. (e) Obtenir une adresse IP automatiquement	S 🔸 🛄
Installer Désortation Propriétés Description Protocole TCP/IP (Transmission Control Protocol/Internet Protocol), Protocol de tréasa dendu par délat, permettant la communication entre differents réseaux réseaux réseaux et terconnectés. OK Ann 7 élément(s) 1 élément sélectionné I I I	Outliker Tadresse IP sulvante : Adesse IP : Adesse IP : Masque de sous-réseau : Passerelle par défaut : Obterrir les adresse des serveurs DNS automatiquement Outliker Tadresse de serveur DNS sulvante : Serveur DNS partiféré : Serveur DNS auxiliaire : Valider les paramètres en quittant Avancé OK	1

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 r	'est pas privée
Nom d'utilisateur	
Mot de passe	
	Ouvrir une session Annuler



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

xPico° [°]	110	LANTRONIX°
企		Device Status
Network		
Server		
Serial Tunnel		
Hostlist	Product Information	
Channel 1	Firmware Version:	V6 11 0 10
Connection	Puild Date:	20 Dec 2017
Channel 2	Natural Cattings	23-Dec-2017
Serial Settings	Network Settings	
Connection	MAC Address:	00-80-A3-D5-66-95
Configurable Pins	Network Mode:	Wired
Apply Settings	DHCP HostName:	< None >
rippiy occurgo	IP Address:	10.106.0.51
	Default Gateway:	10.106.0.250
A malu Defeulte	DNS Server:	10.106.0.101
Apply Delauits	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".

<u>ሰ</u> ት	Serial Settings
 letwork	Channel 1
erver	Disable Serial Port
erial Tunnel	
Hostlist	Port Settings
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	
Connection	Pack Control
Configurable Pins	Enable Packing
pply Settings	Idle Gap Time: 12 msec 🗸
	Match 2 Byte Sequence: Vec. No. Send Frame Immediate: Vec. No.
Apply Defaults	Match Bytes: 0x 00 0x 00 Send Trailing Bytes: None One Two
	Flush Mode
	Flush Input Buffer Flush Output Buffer
	With Active Connect: Ores ONO With Active Connect: Ores ONO
	With Passive Connect: Yes No With Passive Connect: Yes No
	At Time of Disconnect: Ves No. At Time of Disconnect: Ves No.
	OK
	· · · · · · · · · · · · · · · · · · ·

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

×Pico [®]	110	
4	Seria	Settings
Network Server Serial Tunnel Hostlist Channel 1 Connection Channel 2 Serial Settings Connection	Drable Serial Port Ort Settings Protocol: RS222 v Baud Rate: 115200 v Data Bits: 8 v Pack Control Control	Flow Control: None V Party: None V Stop Bits: 1 V
Configurable Pins Apply Settings	Carable Packing Idle Gap Time: 12 msec Match 2 Byte Sequence: Yes No	Send Frame Immediate: Yes INO
Apply Defaults	Hatch Bytes: (Her.)	Flush Output Buffer With Active Connect. O Vec. @ Min
	With Passive Connect: Ves No Al Time of Disconnect: Ves No	With Passive Connet: Yes No At Time of Disconnet: Yes No OK Done!



6- Click "Apply Settings".

x Pico [®]	110 LANTRONIX°
습 Naturask	
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	

7- Check that the baud rates are 115200.

xPico° (110	
යි		Device Status
Network		
Server		
Senal lunnel		
Channel 1	Product Information	
Serial Settings	Firmware Version:	V6.11.0.10
Connection	Build Date:	29-Dec-2017
Channel 2	Network Settings	
Connection	MAC Address:	00-80-A3-D5-66-95
Configurable Pins	Network Mode:	Wired
Apply Settings	DHCP HostName:	< None >
rippi) counigo	IP Address:	10.106.0.51
	Default Gateway:	10.106.0.250
Apply Defaulte	DNS Server:	10.106.0.101
Apply Delaults	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
SCD		Signature A087754B7547481094BE !
JOCF		
irmware		Encryption Erransorradicabeleace2112eber/Abse
Pondor	IP dest 10.106.0.51	
	TCP Client Port 10001	
	SSCP TCP 2102	Authenticate
		Key Index
		Signature -1 Mode None V
	Timeouts (ms)	
	Long	Encryption -1 Value 1
	Total read 2000 🖨	
EGIC		
JHF	Byte read 2000 🖨	ResetAuthenticate
eader		
Reader InOut		SetAllowedCommModes Signed AND Encipher
Reader RF	Console 🖸 Spy 🕻	2 Plain Signed Encryption
landatory		
ustom	Results	
auna (Auta /EDCMaa	command	
sync/Auto/EPCMap	result	

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

Options		
lome	GetReaderType	SSRelayConfig4 INC1 INC2 INC3 INC4
Preferences	GetSerialNumber	Save1 Save2 Save3 Save4
SCP	(*************************************	
irmware	Catlefoc	SSRelayAction4
Reader	AutoBaud Baudrate	SSRelayState4
	AutoPort 38400 ~	
	BuzzerSoundLevel Level 10	OutputRGB
	Save	Red Green Blue
		FF FF FF
	SetSerial&HWType	hex values
UHF	OR\$252	•
Reader	LinkBudget 03 BABABABA	
Reader InOut	Datain	LED duration Buzzer duration Spectre LED Ad
Reader RF	Transceive	
Nandatory		
Custom	Results Reader: CetInfos:0000:187 (ms)	Activity
Async/Auto/EPCMap	Version is 11	
	Address 485 is 0 Dever cumply (Nolt) : 28 4	
	Fower Supply (Vole) . 29.4	Ouit



26	20	8	8			3	19	18	25	18	18	2	3		1		52	12	20	23	83	81	10			1	9
55	83	2		2		8	11		35	65	35	2	22				53	12	55	35	83		32	3		÷.	2
50	22	13						8	25	10	12	12	3	1	20	1	53		51	10	5	8				2	1
10.	10	÷.		Ψ.	-	Ξ.					14	1	1.1				÷		1	-	-	11			-		è

SMI keyboard emulation operation



As soon as a USB cord is connected between the USB-C output (on the front of the SMI) 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:



SME + CNV-485-HID keyboard emulation operation

The SME does not have native keyboard emulation functionality.

This functionality can be used with a STid CNV-485-HID converter cable (not supplied).

Step 1: Configuration of the converter settings (optional)

The cable comes ready-to-use with the following default settings. Refer to NI1123C01 - CNV-485-HID-UHF to change these settings.

List of the configurable settings:

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 of the cable (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.	

Step 2: Connect the CNV-485-HID to the RS485 output of the reader

-		
1	+Vdc	Red
2	Tx	
3	GND	Black
		power
		supply
4	GND	Black CNV
5	NC	
6	GND	
7	L+/A	Blue CNV
8	L-/B	White CNV
9	+Vdc	
10	NC	
11	NC	
12	NC	





Step 3: Switch the reader to autonomous mode

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



- 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:

Sild - SESPIO - Options/SSCP		= _ /
Options		SSCB Security mode
Home	SSCP	SSCP Security mode
Preferences	Communication mode	Change Keys OnlySoftKeys
SSCP	RS232 V AutoConnect	Signature A087754B7547481094BE !
Firmware	Port COM	Encryption E74A540FA07C4DB1B46421126DF7AD36
Reader		
MIFARE Classic / Plus	Baudrate 115200 V	
MIFARE DESFire EvX	Peader Nh 0	ConfAuthenticate
MIFARE Ultra Light / C		Authenticate
CPS3		Key Index
		Signature -1 🗭 Mode None 🗸
	limeouts (ms)	
	Long	
	Iotal read 2000	
UHF	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	result	2 ¹ /2
OSDP	-	
		Quit



4- Enter the following output settings on the "Async/Auto/EPCMap" tab.

STid - SESProUHF - UHF/Async/A	Auto/EPCMap —	×
= Options		
Home	Autonomous_Start	
Preferences	Autonomous_Stop	
SSCP	Autonomous Output	
Firmware		
	EPC output EPC format CR/LF	
MIFARE Classic / Plus	MSB Image: STX+FTX	
MIFARE DESFire EvX	OLSB ODecimal	
MIFARE Ultra Light / C		
	Output Len 12 🚔 🗌 AntID	
Biometrics		
⊞ Image Scan		
Bluetooth / NFC		
125 kHz		
LEGIC		
UHF		
Reader	ЕРС Мар 🗾	
Reader InOut		
Reader RF		
Mandatory		
Custom	Results command Activity	
Async/Auto/EPCMap	result	
OSDP		
	Quit	

- 5- Click "Autonomous_Output".
- 6- Click "Autonomous_Start" to switch the reader to autonomous mode.
- 7- Disconnect the internal USB-C.



APPENDIX 1 – STid USB WEDGE

This tool is used to change the Wedge settings of the SMI reader and of the CNV_485_HID_SME.

STid - USB Wedge Configuration tool									
CNV-485-HID USB Wedge Configuration tool									
Selec	Select COM port								
Command	Parameter								
Update	•								
	\bigcirc								
Configure									

1- Select the COM port to which the SMI or the CNV_485_HID_SME is connected and enter the following settings:





2- Select the setting to be changed in the dropdown list:

Command	Setting	Command	Setting
language	 STid - USB Wedge Configuration tool CNV-485-HID USB Wedge Configuration tool Select COM port Command Parameter Language (set) Français (AZERTY) English (QWERTY) 	info	 STid - U5B Wedge Configuration tool CNV-485-HID USB Wedge Configuration tool Select COM port Command Parameter Info (get) Configure
casing	 STId - USB Wedge Configuration tool CNV-485-HID USB Wedge Configuration tool Select COM port Command Parameter Type case (set) Casing Uppercase Lowercase 	charreturn	STID - USB Wedge Configuration tool CNV-485-HID USB Wedge Configuration tool Select COM port Command Parameter Carriage Return (set • Carriage Return Off On RFU On+Released
numloc	 STid - USB Wedge Configuration tool CNV-485-HID USB Wedge Configuration tool Select COM port Command Parameter Numlock (set) Numlock On (use numeric pad) Off (use keyboard nb) 	reset	 STid - USB Wedge Configuration tool CNV-485-HID USB Wedge Configuration tool Select COM port Command Parameter Reset to default Configure

3- Click the "Configure" button.

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