Quick Start Guide for Speedway R-UHF-SR420/SR220 readers

This guide explains how to start integrating the UHF RFID reader in your laundry.

A. Reader connectors and indicators

Refer to the following pictures to identify reader's connectors and LED indicators.



B. Connect the reader through Ethernet interface

- 1. The RFID reader has DHCP client enabled by default. It can be connected to the laundry network or directly to your PC for first setup. Follow the next steps if you want to connect it to your PC directly.
- 2. Make sure your Local Area Connection adapter is set to obtain an IP address automatically.



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- ⇒	→ * ↑ 🔮 « All Control Panel Items > Network Connections v Õ								vork Conr	lections	۶
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Netw	orking Sharing			6	are Netwo t1 ed	ork Adapter					
Co	Internet Protocol Version 4 (TCP,	'IPv4) Properti	es		1	×					
	General Alternative Configuration	n									
Th	You can get IP settings assigned this capability. Otherwise, you n for the appropriate IP settings.	automatically if eed to ask your	your n networ	etwork su rk adminis	ipports trator						
6	Obtain an IP address autor	atically									
	OUse the following IP addres	s:									
C,	IP address:										
2	Subnet mask:			- 54							
	Default gateway:		- Ô]						
i.	Obtain DNS server address	automatically									
	Use the following DNS serve	er addresses:									
	Preferred DNS server:										
	Alternative DN5 server:		- 32		1						
	Validate settings upon exit			Advan	nced						
items		-									855

3. Connect the RFID reader to your PC with the Ethernet cable, plug in the power supply adapter and wait until Power LED and Status LED are both solid green.

C. GX1 and GX2 region

Follow the next steps only if you have a GX1 or GX2 reader. You can find this information on a label on the side of the reader.

- Connect to the reader management interface using a Web browser (e.g. Google Chrome), type <u>http://169.254.1.1</u> address in the address bar and press enter. Login with the default credentials. User name: root. Password: impinj.
- 2. Select your region from the Available Regions drop down list then click on the Update Region button. A reboot is required to complete the operation, click on the Reboot ♂ button.

Available Regions	Hong Kong 920-925 MHz		
Press to Update	Update Region		
READER REBOOT			
READER REBOOT Reboot Status	Ready To Reboot		

D. Check if Cloudburst SW is already installed

Before proceeding to the next chapters it is important to check if Cloudburst SW is already installed, therefore please proceed as described in the following steps.

- Connect to the reader management interface using a Web browser (e.g. Google Chrome), type <u>http://169.254.1.1</u> address in the address bar and press enter. Login with the default credentials. User name: root. Password: impinj.
- 2. In the reader's details, check if an application SW is installed.

ETAILS		ANTENNA
Model Name	Speedway R120	Feature St
Regulatory Region	ETSI 302-208 v1.4.1	Press to E
MAC Address	00:16:25:13:E3:7E	
Software Version	7.6.1.240 (Build 9b2266927f9)	READER R
Hordware Version	tupro Version 260,006,006	
Application SW Version	2.4.0.42	Press to F
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3. <u>If the "Application SW Version" is shown it means that Cloudburst SW is already installed, so please</u> proceed directly to chapter F.

E. Install Cloudburst software to start operating the reader

Cloudburst is a Datamars software that allows to manage the RFID reader and it allows to quickly deploy the RFID system with no need for software development and deep RFID knowledge.

- 1. Download Cloudburst clicking the Download button at the following address <u>https://www.textile-id.com/cloudburst</u> and unzip the downloaded file.
- Connect to the reader management interface using a Web browser (e.g. Google Chrome), type <u>http://169.254.1.1</u> address in the address bar and press enter. Login with the default credentials. User name: root. Password: impinj.
- 3. Click the Browse... button in the Reader upgrade section. Select the .upg file (e.g. Cloudburst_1_0_0.upg) in the unzipped folder of the previously downloaded file and click Open.

Ipgrade Status	Ready			
Last Operation Status	N/A			
Select Upgrade File	Browse Cloudburst_1_0_0_0			
Upgrade Now	Upgrade [↑]			

4. Click on the Upgrade [↑] button. The reader uploads Cloudburst and then commits the SW image, the process lasts about 30 seconds. When the Last Operation Status turns to Waiting for manual reboot click on the Reboot ♂ button in the Reader Reboot section. The installation and reboot process take about 60 seconds. If the software is successfully installed the Power LED is solid green and the Status LED blinks green.

F. Start operating the reader with Cloudburst

- 1. Connect an antenna to the ANT1 connector on the RFID reader and put an RFID tag on the antenna.
- Connect to the Cloudburst Web GUI using a Web browser (e.g. Google Chrome), type <u>https://169.254.1.1</u> address in the address bar and press enter. Type the default password: password and click the Login button.

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← → C ▲ Not secure	https://169.254.1.1/rfid-settings	☆	e	¢ :	
	CLOUDDUIST				
	Enter password				
	Pagat passward?				

 Click on the LiveRead button on the right side of the page and then click on the Start button. The EPC (Electronic Product Code) of the RFID tag on the antenna is shown on the LiveRead window. You successfully read the tag!

← → C ▲ Nots	ecure https://169.254.1.1/rfid-setting:	5			☆ 0	1
cloudburst	- Antenna settings Antenna mode Standard Y			LiveRead Total EPC read: 22 Start Stop	Reset counter Clear list	
	Antenna 1 TX Power 16.00 dBm	Sensitivity MAX_dBm Antenna 2	TX Power Sensitivity	308ED89F33500040011168EC 308ED89F33500040011168EC 308ED89F33550044001168EC 308ED89F3356004001168EC		
	Antenna 3 dBm	dBm Antenna 4	dBm dBm	308ED89F33580840011168EC 309ED89F33580840011168EC		
Expert	- Reader settings			300ED89F33500040011168EC 300ED89F33500040011168EC 300ED89F33500040011168EC 9800ED89F33500040011168EC		
RFID settings	Reader mode	I aw duty cycle	Report size	300ED89F33500040011168EC 300ED89F33500040011168EC		
	Search mode	Empty field timeout	Operating fequency mode	300ED89F3350004001116BEC 300ED89F3350004001116BEC		
	Dual target 🔹	200 ms	Auto select 🔹	300ED89F3350004001116BEC 300ED89F3350004001116BEC		
	0 *	200 ms		300ED89F33500040011168EC 300ED89F33500040011168EC		
	Population estimate			300ED89F3350004001116BEC 300ED89F3350004001116BEC		
	32			300ED89F33500040011168EC 308ED89F33500040011168EC		
Network	 — Start and stop conditions 					
	Start condition Manual	Stop condition A Manual • or	Stop condition B None			
	Start	Stop				
6 / G						
					Peading activity: IDLE	-

Cloudburst allows to set-up all the parameters included the network interface of the reader to connect it to the laundry network and start getting EPCs in the laundry management software.

For additional information see the Cloudburst online help or the user manual at the following link: <u>https://www.textile-id.com/cloudburst</u>.

Support

Contact Datamars Textile ID support team at <u>support-tid@datamars.com</u> or call the landline support at +41 91 935 73 80.