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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	orking Sharing			are et1 led	Netwo	rk Adapter					
Co	Internet Protocol Version 4 (TCP/	Pv4) Propertie	s		>	<					
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Th	You can get IP settings assigned a this capability. Otherwise, you ne for the appropriate IP settings.										
6	Obtain an IP address automatically										
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t	Obtain DNS server address a	automatically									
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	Alternative DNS server:		- 32								
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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.

Model Name	Speedway R120	Feature S	
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	260.006.006	Reboot S	
Application SW Version	2.4.0.42		
	010 20 21 0 16		
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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.

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

4. Click on the Upgrade [1] 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 O 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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	Enter password			
	Login Forget password?			

 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!

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CLOUDDUITST	- Antenna settings Antenna mode Standard ¥			- LiveRead	p Reset counter Clear list
	Antenna 1 Antenna 3 TX Power dBm	Sensitivity MAX dBm Antenna 2 Sensitivity dBm Antenna 4	TX Power Sensitivity TX Power Sensitivity dBm dBm	306C099733500040011168EC 306E089733500040011168EC 306E089733500040011168EC 306E089733500040011168EC 306E089733500040011168EC	
Operating mode: Expert	- Reader settings	dom Antenna 4		300CE059733500040311168CC 300CE059733500040311168CC 300CE059733500040311168CC 300CE059733500040311168CC 300CE059733500040311168CC 300CE059733500040311168CC	
RFID settings	Reader mode AutoSet	Low duty cycle	Report size	300ED89F33500040011168EC 300ED89F33500040011168EC 300ED89F33500040011168EC	
Data filtering	Search mode	Empty field timeout	Operating fequency mode	300ED89F33500040011160EC 300ED89F33500040011168EC	
	Dual target Session	200 ms Field ping period	Auto select 🔹	300ED89F3350004001116BEC 300ED89F3350004001116BEC 300ED89F3350004001116BEC	
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GPO	Population estimate 32			300ED89F3350004001116BEC 300ED89F3350004401116BEC 300ED89F33500044001116BEC	
System	32			2 300ED89F33500040011166EC	
Network	- Start and stop conditions				
	Start condition Manual	Stop condition A Manual • or	Step condition B None T		
	Start	Stop			
♦ √ 					
					Reading 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.