

NOTICE D'UTILISATION USER MANUAL

Spy RF Modem Ethernet



08916B



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I. Introduction

Congratulations, you own a SPY RF Ethernet Modem ! This device is equipped with 1 or 2 inputs (digital or logical...). It enables you to record 1 or 2 physical parameter (depending on the model) and to transfer wireless the recorded data by radio frequency to a PC.

1 user manual

1 adhesive plaster

The SPY RF Ethernet Modem complies with EN 12830, only with temperature probes.

a) <u>Equipment</u>

- > 1 SPY RF Ethernet Modem
- > 1 wall-mounting bracket
- 1 connector protection
 - b) <u>Symbols</u>

X	RECYCLING : do not throw in a rubbish dump or in a domestic waste container. Comply with the regulation to throw away the device.
	POWER SUPPLY : this device is powered by a continuous current delivered by a main power supply adaptor (230VAC). Comply with the security and utilization regulations of electric power. Use an electric installation complying with these regulations
CE	CE MARKING :this equipment is certified to comply with the European regulation for the electric security, inflammability, disturbing radiation emission and immunity to surrounding electric disturbances.
F©	FCC ID: 09586 / 09587 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation In accordance with FCC requirements, changes or modifications not expressly approved by JRI Maxant could void the user's authority to operate this product. NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

II. INSTALLATION RECOMMENDATIONS

The Spy RF is a recorder of physical parameters able to communicate wirelessly with the operating software SIRIUS. The wireless communication is based on radio frequency. As we are daily in contact with it (radio, TV...) it is easy to think that it always works. This is true if basic rules on the positioning of recorders are respected because wireless communication is subject to perturbations.

a) <u>Perturbations sources</u>

- Presence of obstacles in the way of the waves between the Spy RF ModeM and the Spy Rf (wall, ceiling, person, furniture...) or close to the antenna.
- Obstacles thickness in the way of the waves. The absorption is more important in diagonal as perpendicularly



> Waves cannot pass through full metallic walls. On the other hand, a perforated wall allows the waves passing with attenuation



III. INSTALLATION

a) Installation recommendations

- > Place the devices at ~2m high and around 30 to 40cm from the ceiling to avoid obstacles and moving persons.
- > If possible, place the Spy RF in central position regarding the Spy RF recorders.
- > Try to place them preferably at sight of each other.
- > On the wall, it is preferable to them aside by using the special bracket (ref 08512) of the catalog.
- > Place the antenna above the top of the monitored unit (fridge, incubator, oven, cold rooms...).
- > Never place the Spy RF horizontally.
- If some difficulties persist, it is possible to use Spy Rf RelaY (repeaters) or to connect another Spy RF ModeM to the Ethernet network (LAN).
- b) Installation of wall-mounting bracket



c) <u>Complementary information</u>



IV. CHARACTERISTICS

Operating range	0+40°C 0-90% HR non condensed
StorageTemperature range	-40 + 85°C
Radio range (in free field)	1km
Radio band	868MHz – 902 MHz
Transmitting power	25 / 500mW
Power supply	9V DC 650mA or through Ethernet*
Rechargeable battery	NIMH 6V
autonomy without power supply	from 4 to 6h
Dimensions	153 x 82 x 35mm
Relay output	36V DC - 1A
CE ERM conformity	EN 301 489 / EN 61000 / EN 61010 EN 55022 / EN 300 220
*fournie nour le marché auronéen l'Europied for auroneen market	

*fournie pour le marché européen / Supplied for european market

V. INSTALLING SPY RF ETHERNET MODEM

The Modem SPY RF Ethernet is fitted with a module DIGI CONNECT ME for which the installation procedure is as follows:

1) Installing drivers Digi Connect ME

The installation must be made for each RF Modem SPY Ethernet used on the network.

Connect all modems to be used on the network and connect them to the power supply

Use the installation CD that came with the modem; the "Digi Device Setup Wizard" application will automatically start.

🐲 Digi Device Setup Wizard	
Dici	Welcome to the Digi Device Setup Wizard This wizard will guide you through the initial device installation.
	This wizard will discover your device on the network, help you to set it up for your application scenario, and save the configuration to the device.
Discover Device	
Configure Device	Before you continue, make sure
Save Settings	 The device is connected and powered up as described in the Quick Start Guide. If you have a device with both a wired and a wireless interface, it is recommended to connect it to the network using the wired interface for initial device configuration.
	 You have the MAC address of the device available. The MAC address is located on the white label on the bottom or back of the device.
	 Check to make sure that you do not have any firewall software running on the computer running the setup wizard. Firewall software will prevent the setup wizard from discovering the device on your local network.
	To continue, click Next.
	< <u>Précédent</u> Skip >> Annuler Aide

🐲 Digi Device Setup Wizard				×
Dia	Discover Device Locate your Digi der	vice on the network.		Ì
Locate your Digi device on the network. Discover Device Configure Device Save Settings Lise Settings Lise Setting Lise Seting Lise Setting Lise Setting Lise Se	l like to configure. Id list, select <device< th=""><th>lentify your device based not listed> and click Next.</th></device<>	lentify your device based not listed> and click Next.		
Discover Device	Found Devices:			
Configure Device	IP Address 🔺	MAC Address	Product Name	Firmware Version
Save Settings	192 168 0.140 192 168 0.140 2192 168 0.181 2192 168 0.210 2192 168 0.210 2192 168 0.210 2192 168 0.210	00 40:90 20 80:55 00 40:90 28:84:14 00 40:90 28:84:14 00 40:90 28:84:56 00 40:90 28:84:4E	Digi Connect ME Digi Connect ME Digi Connect ME Digi Connect ME	Version 82000774_6 Version 82000856_F5 Version 82000856_F6 Version 82000856_F6
				Refresh
	< <u>P</u> ré	cédent <u>S</u> uivan	<u>Skip >></u>	Annuler Aide

Click on **Next** – the list of Digi Connect ME devices that are available on the network is then displayed,, each with its IP address (fixed or issued by the DHCP server) and its MAC address. The modules are visible 2 to 3 minutes after installation.

• Choose fixed IP Address mode (check "use the following IP settings"), enter an IP address (provided by the network administrator or proposed by the PC; eg. 192.168.0.1) and enter a subnet mask (for example: 255.255.255.0); then select **Next**

🐲 Digi Device Setup Wizard	
Dia	Configure Network Settings Enter the following settings to configure the Digi Connect ME for your network.
	The network settings can be assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate network settings.
Discover Device	
Configure Device	O Ubtain IP settings automatically using DHCP
Save Settings	Use the following IP settings
	IP Address: 192.168.0.52 Yet Mask- 255.255.0 Detuit Gateway: DNS Server: Domain: Host Name:
	To continue, click Next.
	<pre></pre>

• Select in the list the scenario "REAL PORT" (redirection of port com), and Next

Select the device you wish to install, and Next

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🛫 Digi Deviće Setup Wizard	×
	Select Scenario
	Browse through the list of scenarios and select the one that best describes how
DG	
	Compared int
	DeelDeel (COM Deel Deeleestien)
	RealPort (COM Port Redirection)
Discover Device	Modem Emulation
Configure Device	Printer N
Save Settings	Serial Bridge
Sure Settings	Incoming Network Connection
	Custom Configuration
	system/Device
	Description:
	Select this scenario if your application requires a COM or TTY port to communicate with
	your senai device. More
	Application:
	Printing, faxing, dial-up networking or other legacy applications which require access to a
	standard COM or TTY device.
	To continue, click Next.
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	Z Précédent Suivant Skipss Annuler Aide
	J
😤 Digi Device Setup Wizaro	
	Configure RealPort Settings
	Install RealPort on this computer.
DIGT	
	RealPort activers can be installed on one or more best services to provide
Discover Device	RealPort software can be installed on one or more host servers to provide local serial port functionality.
Discover Device Configure Device	RealPort software can be installed on one or more host servers to provide local serial port functionality.
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➢ Discover Device ➢ Configure Device Save Settings	RealPort software can be installed on one or more host servers to provide local serial port functionality. Image: Image

• A summary of choices is displayed on the screen. If everything is OK, click on Next

🐲 Digi Device Setup Wizard		
Dici	Verify Configuration Verify the configuration before it is uploaded to your device(s). All previous settings will be erased before the new settings are applied.	I)
	Configuration Report: The Digi Connect ME with MAC address 00:40:9D:2B:8C:36 will be configured with the	<u> </u>
 Discover Device Configure Device Save Settings 	following settings: Network Settings: IP Address: 192.168.0.52 Subnet Mask: 255,255,255.0	
our oungs	Default Gateway: 0.0.0 DNS Server: 0.0.0 Domain: <none> Host Name: <none></none></none>	
	Serial Port 1: RealPort (COM Port Redirection). Enables applications that require a COM Port to communicate to the device attached to this serial port.	
	All settings are controlled by the application through RealPort. Map Serial Port 1 to CDM3 on computer GUILLOTEAU.	<u> </u>
	To save the contiguration report to disk for future reference, click here To save these settings to the device, click Next.	
	< <u>Précédent</u>	Aide

The RealPort software is installed and the installation program stops.

Digi Connect ME: Installing Digi RealPort	
)

• Select "log on to web user interface of device" and select Finish



• The screen of Web Digi Connect ME appears; enter "root" for the username and "dbps" as a password

Login	
Welcome to the Configuration and Management interface of the Digi Connect ME	Username: root Password: ••••
Please specify the username and password to login to the web interface.	Login
See the User Guide and documentation for more information on logging in or retrieving a lost password.	5

• The various sections of the Web interface allow access to all the resources of Digi Connect ME

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Selection of "Serial Port" in the Setup menu followed by the selection of "Port1" enables the user to check the programming in "Real Port".

- B http://192.168.	0.180/managemenk/ports/ports_mgmk.htm		V +	Q
oogle C+192.168.0.180	🔽 60 + 🧔 📦 🏟 🥝 🛃 • 🏠 Bookmarks	• 👰 16 blocked 🛛 🍄 Check •	🐴 AutoLink 🔹 📷 Autol 18 📑 Send to - 🍃	>> Setting
🕸 🍘 Digi Connect ME Con	figuration and Management		∆ • ⊠ • ⊕ • E	Page - 🕥 Outils -
Digi	Digi Connect ME Conf	iguration and N	lanagement	
Connectware**				🕑 Help
tome	Serial Port Management			
Network	Port Description Profile	Manage		
Alarms System Remote Management Users		▼ 43		
Serial Ports Connections				
dministration File Management Backup/Restore Update Firmware Factory Default Settings System Information Pachaet				
Rebool				
ogout				
ogout				

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Connections Management						
Active System Connections						
Action	Connected From	Connected To	Protocol	Sessions		
	192.168.0.64	serial 1	realport	0		
	192.168.0.64	webui	http	0		
Refresh	Disconnect					

Save "System Configuration" (copy screen) Select "Update Firmware" in the: "Administration" Menu Collect all firmware and Post versions

C Digi Connect ME Configuration and Management - Windows Internet Explorer	
🚱 🕘 👻 🖉 http://192.168.0.180/admin/upgrade_firmware_new.htm	P -
Coogle 🕞 - 192.168.0.180 🛛 🔽 Go 🗄 🎯 🎯 🏈 🦉 🗸 Bookmarks - 🔕 16 blocked 🦃 Check - 🔨 AutoLink - 📔 AutoFil 🔒 Send to - 🥖 🤌	Settings •
👷 🏘 🎉 Digi Connect ME Configuration and Management	• 💮 Outils 🗸 🦥
	^
Digi Connect ME Configuration and Management	
Connectware [™]	
	0 11-la
Home	• Help
Configuration	
Network Caution: You have asked to update the firmware on your Digi Connect ME. When updating the firmware, plea Serial Ports the support site and release notes for more information to determine if this device must update the POST bef updating the firmware.	se check ore
Alarms System Model: Digi Connect ME	
Remote Management Firmware: 1.9.0.6 (Version 82000856_F6 07/21/2006) Users POST: 1.1.3 (release 82000867 G)	=
Management	
Serial Ports Select Firmware	
Administration	
File Management Backup/Restore	
Factory Peak States and States an	
Logout	
Copyright © 1220°2000 bigi international Inc. Ali rights reserved.	

The web interface allows to perform optimization operations of the driver and DIGI ONE update operations -See section OPTIMIZATIONS § 4.3- Do not close this window in case you need to update drivers

Reboot - « Administration » Menu

Administration File Management Backup/Restore Update Firmware Factory Default Settings	
Reboot Logout	
	Copyr
http://192.168.0.52/admin/reboot.htm	

NB : This procedure can be performed either by the application "Digi Port Authority" installed by the CD, either by the application "Digi Device Discovery," available on CD with a simple user interface, which must be installed separately

2) Setting serial ports for Sirius

Once installation of Digi Connect ME completed, these modules can be accessed by Window via' virtual serial ports. " To determine the number of a serial port assigned to a specific Digi Connect ME module, in order to set up a distant modem in Sirius, proceed as follows:

• Open Device Manager in Windows.



- In the Directory "Port" (COM & LPT), check the virtual COM port used for each Digi Connect ME module. To avoid confusion, identify each module by its IP address by opening the Properties window (right click on the line Digi Connect ME) and going on the General tab.
- The Spy RF ModeM Ethernet is now installed. It must be displayed in the device manager (SIRIUS)

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G 40.A0.04.06		40.A0.04.06 - 1 - Info		11)	<u>)))</u> 90 %	15,0 °C	22,0 °C	0	0	5 mn		13/01	
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3) Procedure in case of malfunction?

Set a new configuration by connecting directly the modem onto the network port of the PC, using an Ethernet cable.. The PC should not be connected to the network.

4) Optimizations

After installation of an Ethernet modem you must ensure that the communication between the modem and Sirius takes place within a delay that is compatible with the application. The simplest way to proceed is to empty the memory of a satellite and check if the emptying time is correct. If the emptying procedure takes more than 5 minutes (1 minute for one day measures) it is imperative to carry out a parameter setting. 4.1) Verification of Firmware DIGI Connect ME

- At the Web interface
 - "Administration / Update Firmware" enables to update the firmware embedded in the Digi Connect ME modules. The updated versions are as follows:

C Digi Connect ME Configuration	and Management - Windows Internet Explorer		
🕒 🗸 🗸 🖉 http://192.168.0.18	D/admin/upgrade_firmware_new.htm	Google	
Google G=192.168.0.180	Go 🗄 🧔 🍚 🥥 🦉 👻 😭 Bookmarks 🕶 🚳 16 blocked	🍄 Check 🔻 🐴 AutoLink 👻 📔 AutoFill 🍙 Send to 👻 🌽 😕	○ Settings
🚖 🕸 🌔 Digi Connect ME Configur	ation and Management	🚹 🔹 📾 🔹 🔂 Bage	• 🕶 💿 Outils 👻
Diat	Digi Connect ME Configuratio	n and Management	
U IGIN			
Connectware™			
			😮 Help
Home	Update Firmware		
Network	Caution: You have asked to update the firmware o	n your Digi Connect ME. When updating the firmware, ple	ase check
GPIO	the support site and release notes for more inform updating the firmware.	ation to determine if this device must update the POST be	etore
Alarms System	Model Digi Connect ME		
Remote Management Users	Firmware: 1.9.0.6 (Version 82000856_F	6 07/21/2006)	=
Management	111.5 ((clcase_0200000/_0)		
Serial Ports Connections	Select Firmware		
Administration	Select Firmware:	Parcountr	
Backup/Restore	Update		
Factory Default Settings		es drivers se trouvent sur le CD	de Sirius
System Information Reboot			
Logout	/		
	Copyright © 1996-2006 Digi International	Inc. All rights reserved.	
	unit del com	- 😜 Internet	€ 100% ·
	*		
Matériel	Version POST	Version Firmware	Version Drive
matoriol			REAL Port
nect ME	82000867 G (1 1 3)	82000856 E6 (1 9 0 6)	3 6 325 0
Ethernet)	0200007_0(1.1.3)	02000000_10(1.9.0.0)	5.0.525.0

The POST is the program used to download the firmware ; if not updated it must be downloaded at first. After each download of a Digi One module, a "Reboot" procedure is proposed; Accept this procedure.

4.2) Checking of the REAL PORT Driver used

The versions of the firmware and of the drivers are available on the CD, in the directory "Drivers", or on the website of DIGI-www.digi.com support section-drivers.

The version that has been tested and that is compatible with LAN and WAN connections is version:

3.6.325.0 of 17/11/2006

To know the driver version that is activated:

- Right click workstation + tab material of the properties Menu
- (or Control Panel + system + equipment).
- Select device manager.
- In « multi-port card » select the concerned DIGI

Propriétés système		
Propriétés système Restauration du système Mises à jour automatiques Utilisation à Général Nom de l'ordinateur Matériel Ar Gestionnaire de périphériques Matériel Ar Sectionnaire de périphériques affiche la liste de toub les périphériques matériels installés sur votre ordinateur. Utilisez le Gestionnaire de périphériques pour modifier les propriétés de l'un de ces périphériques Pilotes Estionnaire de périphériques. La signature des pilotes certifie la compatibilité des pilotes installés avec Windows Windows Lodeer vous permet de définir la manière dont Windows Lodeer vous permet de définir la manière dont Windows se connecte à Windows Update pour obterir les pilotes. Signature du pilote Windows Update Profils matériels Les profils matériels vous offrent la possibilité de définir et d'erregistrer plusieurs configurations matérielles.	Image: Section maire de périphériques Vancé Fichier Action Affichage ? Fichier Action Affichage ? Image: Section affichage ? Image: Secti	Propriétés de Digi Connect ME (192.168.0.52) Général Advanced Pilote Détaits Digi Connect ME (192.168.0.52) Fournisseur du pilote : Digi International Date du pilote : Digi International Dete du pilote : 17/11/2005 Version du pilote : 36.325 Signataire numérique : Microsoft Windows Hardware Compatibility Publ Détaits du pilote Pour afficher les détaits concernant les fichiers du pilote. Mettre à jour le pilote. Pour afficher les détaits concernant les fichiers du pilote. Mettre à jour le pilote Si le pérjohérique ne fonctionne pas après la mise à jour du pilote, réinstaller le pilote précéderment installé. Désigstaller Pour désinstaller le pilote jubite, pérjohérique re le pilote jubiteseur
Profils matériels	 √ Ordinateur ↔ Périphérique d'images √ Périphérique système √ Perts (COM et LPT) √ Perts (COM et LPT) Processeurs √ Souris et autres périphériques de pointage 	Désinstaller Pour désinstaller le pilote (utilisateur expérimenté).
OK Annuler	Ouvre la feuille de propriét	

• Right click on Properties

• The tab « Driver » shows the driver version in use.

To modify the driver of the Digi Connet ME module :

- Select « Driver Update »
- Choose the location where you have previously stored files (CD or USB key eg)

After updating the Driver, reboot of the PC is required. Otherwise programming § 4.3 is not available.

4.3 - Programming the response time

This adjustment is necessary as it is often the cause of a slow communication.

- Right click workstation → properties → tab "material"
- (or Control Panel + system + equipment).
- Select « device manage r ».
- In « multiport card », select the DIGI you need to program
- Right click on Properties
- Select the tab "Advanced" and click on "properties" in the lower right corner



Select « port 1 », then "Set Profile"

Digi Connect ME (192.168.0.180) Advanced Properties	? 🔀
Digi Connect ME (192.168.0.180	Properties Serial Advanced TCP Port 1 (COM10) Port Name: Port Description: Port Network Profile TCP: Typical Settings Set Profile	
	OK Cancel	<u>Apply</u>

Optimization of the driver 3.6.325.0

- In the « Set Port Profile » Menu, select "Typical Settings" if you wish a LAN application (local area network)
- Choose "Less Overhead" if you wish a WAN application (remote network)

Set Port Profile					
Profiles define unique sets of configuration values for specific applications and networks					
Choose a New Profile					
Try this first, it's compatible with most serial applications:					
LCP: Typical Settings					
This mut improve throughput but is less compatible:					
C TCP: Modified <u>R</u> ead/Write					
This profile decreases network usage (e.g., for cellular):					
C TCP: Less Overhead					
Choose this if you don't need signal state changes:					
C TCP: Low <u>O</u> verhead/No Deltas					
✓ Apply New Profile to Device and All Ports OK Cancel					

VII. WARRANTY

JRI Maxant products carry a one year warranty and guarantee against defects in their components or workmanship.

During this period if any product supplied by the Company proves on inspection to be defective, the Company will at its own option replace the same or refund to the Buyer the price of the product.

In no circumstances will JRI Maxant' liability exceed the price of the product paid by the buyer or the cost of replacement.

JRI Maxant shall not in any event be liable to the Buyer for any indirect or consequential loss or damage costs or expenses whatsoever which might arise out of or in connection with the supply of the product or its consequent use.

Consequently, the products warrantee and guarantee specified above, does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification, or use with non-JRI Maxant' hardware/software. No warranty of fitness for a particular purpose is offered and the user assumes the entire risk of using the product. In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.

VIII. MAINTENANCE CONTRACT

How to optimize your radio frequency installation?

RF measuring systems communicate by radio frequency. However, there may be several factors that can modify the radio ways already defined, such as moving from a building, adding walls, ... Radio frequency requires thus a periodical follow up performed by specialists.

That's why JRI Maxant has created maintenance contracts. We bring you a global solution which makes your maintenance easier. This overall service offer includes maintenance and also metrological services, which ensure you that your system is fully performant.

You won't worry about your devices maintenance anymore !

With this maintenance contract you will benefit for a minimal period of 2 years from the following advantages:

- material verification once or twice a year
- warranty extension
- telemaintenance
- telephone assistance +33 (0) 892 680 933 (0,282 € HT/min)
- material replacement on site or by return in our manufacture
- metrological certificates: verification of measurement accuracy
- access to new software versions and updates
- on-site intervention time within 3 open days after problem identification by our experts

IX. ENVIRONMENT PROTECTION

JRI Maxant recommends to our customers to throw away their measuring and recording devices which are unserviceable and/or beyond repair in a way that is appropriate to environment protection. Insofar as the production of waste cannot be avoided, it is best to re-use them by proceeding with adapted recycling depending on the material used and considering the environment protection.

RoHS Directive

The ROHS European Directive rules and limits the presence of hazardous substances in electrical and electronic equipments (EEE).

In the article 2, the scope of this Directive excludes "9. Monitoring and Control Instruments" and our products are part of this category.

Nevertheless, our company has decided to apply the whole dispositions of this Directive for all our new electronic devices which will comply to this 2002/95/CE Directive.