

# Utilizando el conversor serial & Ip del Digi


# Introducción

Lista de pasos básicos a seguir, para configurar el equipo Digi como conversor Serial & IP, de manera tal que se pueda administrar la información proveniente del puerto serial del Digi por tramo celular con una dirección IP.

Requisito para este manual:

\* Basic Script Digi

# P1.) Ingresar a: Configuration / Serial Ports



## Connect WAN 3G Configuration and Management

Home

**Configuration**

- Network
- Mobile
- Serial Ports**
- Camera
- Alarms
- System
- iDigi
- Users
- Position

**Applications**

- Python
- RealPort

**Management**

- Serial Ports
- Connections
- Event Logging
- Network Services

**Administration**

- File Management
- X.509 Certificate/Key Management
- Backup/Restore
- Update Firmware
- Factory Default Settings
- System Information
- Reboot

Logout

---

### Home

**Getting Started**


**Tutorial** Not sure what to do next? This Tutorial can help.

**System Summary**

Model:	Connect WAN 3G (MEI serial, Watchport sensor)
Ethernet MAC Address:	00:40:9D:37:21:54
Ethernet IP Address:	192.168.1.1
Mobile IP Address:	201.189.39.87
Description:	None
Contact:	None
Location:	None
Device ID:	00000000-00000000-00409DFF-FF372154



## P2.) Ingresar a **Port 1**



### Connect WAN 3G Configuration and Management

Home

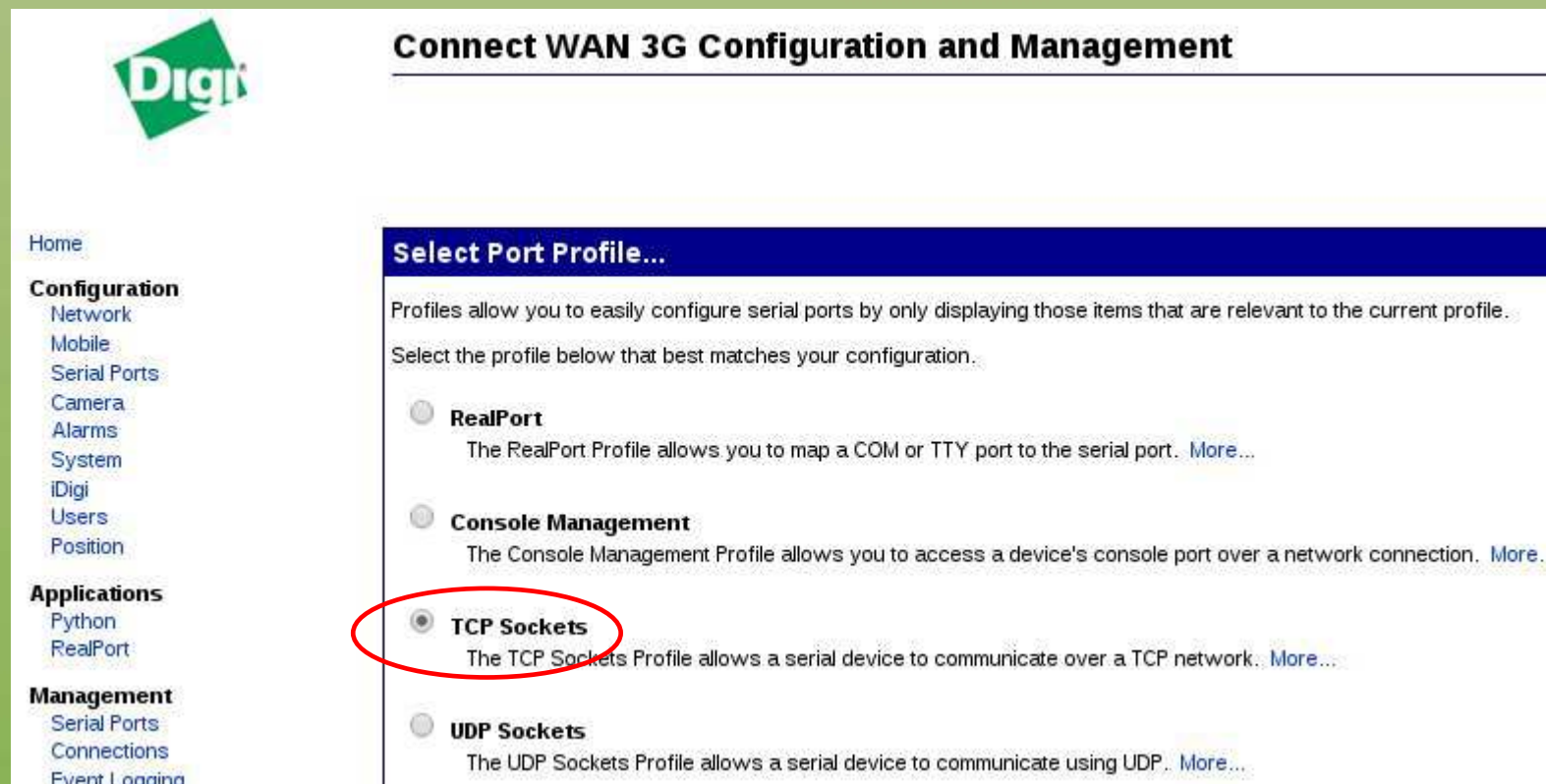
**Configuration**

- Network
- Mobile
- Serial Ports
- Camera
- Alarms
- System
- iDigi
- Users
- Position

#### Serial Port Configuration

Port	Description	Profile	Serial Configuration
Port 1	None	<Unassigned>	9600 8N1

# P3.) Habilitar la casilla TCP Socket



**Digiplex**

## Connect WAN 3G Configuration and Management

Home

**Configuration**

- Network
- Mobile
- Serial Ports
- Camera
- Alarms
- System
- iDigi
- Users
- Position

**Applications**

- Python
- RealPort

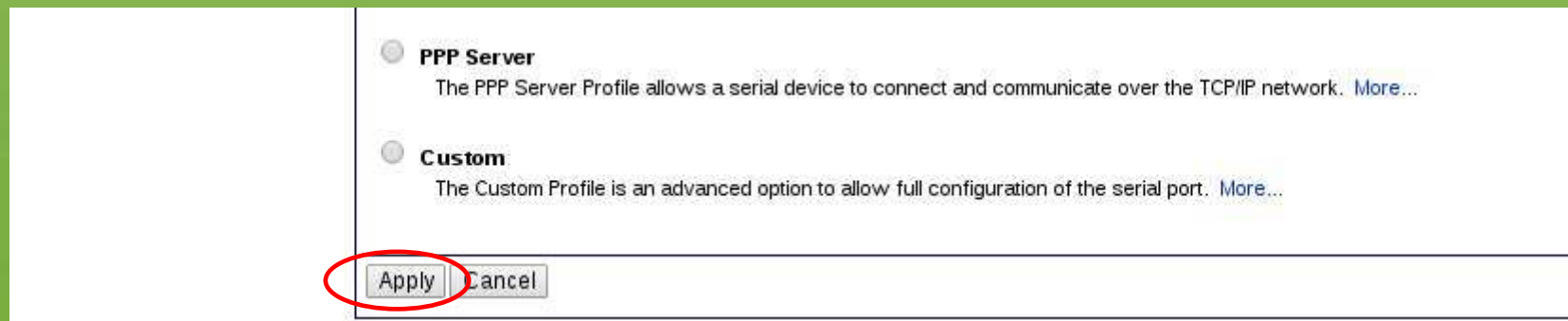
**Management**

- Serial Ports
- Connections
- Event Logging

### Select Port Profile...

Profiles allow you to easily configure serial ports by only displaying those items that are relevant to the current profile. Select the profile below that best matches your configuration.

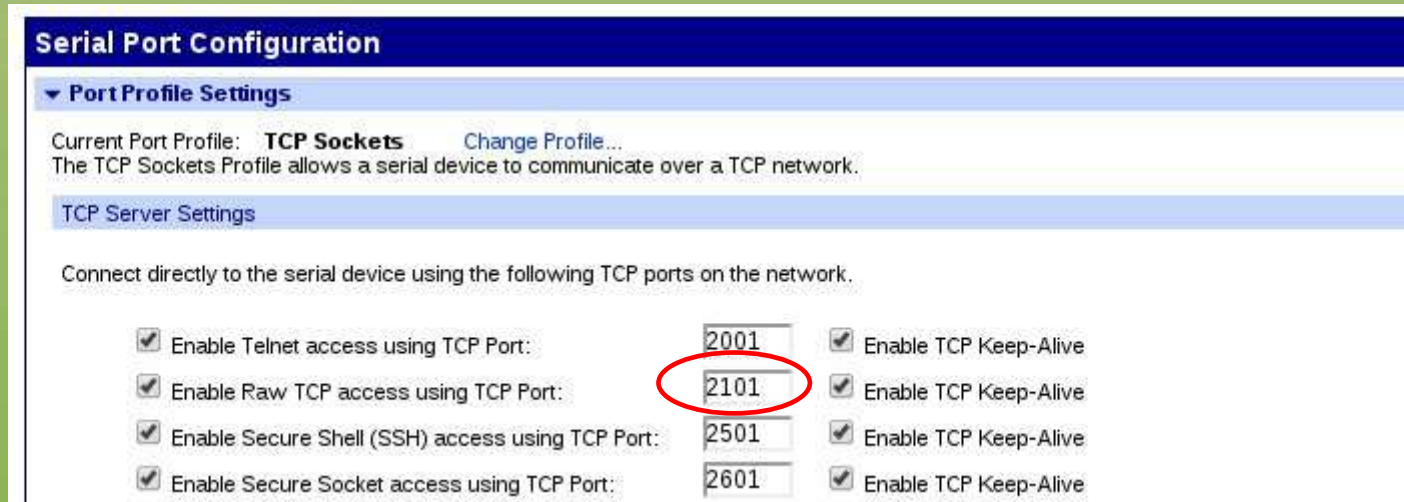
- RealPort**  
The RealPort Profile allows you to map a COM or TTY port to the serial port. [More...](#)
- Console Management**  
The Console Management Profile allows you to access a device's console port over a network connection. [More...](#)
- TCP Sockets**  
The TCP Sockets Profile allows a serial device to communicate over a TCP network. [More...](#)
- UDP Sockets**  
The UDP Sockets Profile allows a serial device to communicate using UDP. [More...](#)



- PPP Server**  
The PPP Server Profile allows a serial device to connect and communicate over the TCP/IP network. [More...](#)
- Custom**  
The Custom Profile is an advanced option to allow full configuration of the serial port. [More...](#)



**P4.)** Luego habilite los puertos a utilizar y active los “*Enable TCP Keep-Alive*”, para que el equipo mantenga viva la comunicación con ese puerto. El número del puerto puede ser modificado según su necesidad.



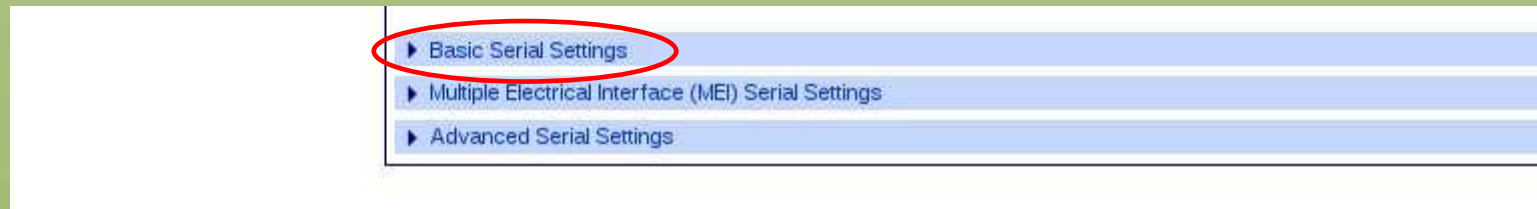
The screenshot shows the 'Serial Port Configuration' window. Under 'Port Profile Settings', the current profile is 'TCP Sockets'. Below this, the 'TCP Server Settings' section is expanded, showing instructions to connect to a serial device via TCP ports. A table of settings is displayed:

Service	Port	Enable TCP Keep-Alive
Enable Telnet access using TCP Port:	2001	<input checked="" type="checkbox"/>
Enable Raw TCP access using TCP Port:	2101	<input checked="" type="checkbox"/>
Enable Secure Shell (SSH) access using TCP Port:	2501	<input checked="" type="checkbox"/>
Enable Secure Socket access using TCP Port:	2601	<input checked="" type="checkbox"/>

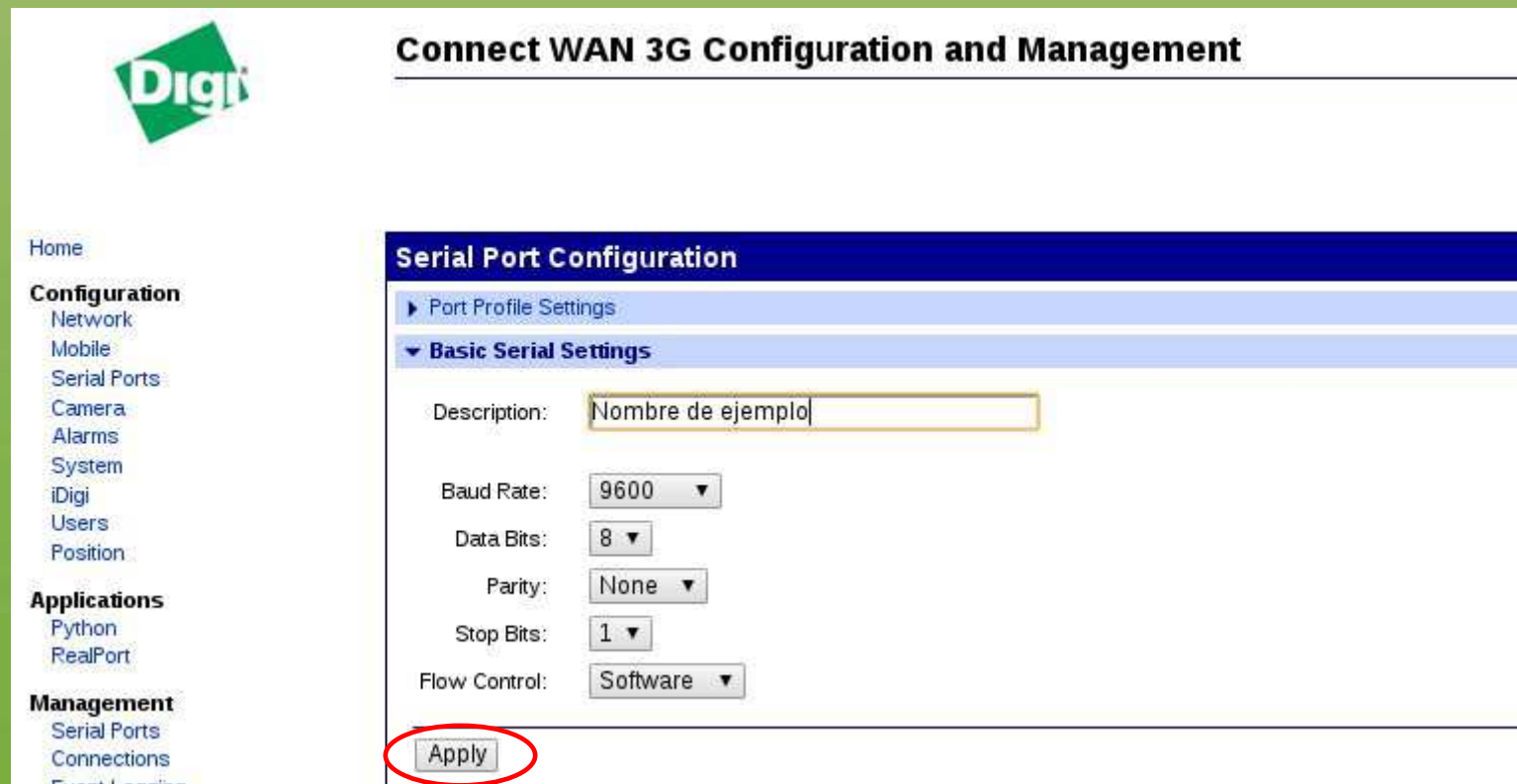
The port number '2101' in the second row is circled in red.

Para el ejemplo se utiliza el puerto 2101, es decir, para establecer una sesión RAW con el dispositivo serial a través del Digi, tan solo bastará utilizar la IP o hostname del equipo Digi seguida del puerto 2101 Ej. digipruebas.dyndns.org:2101 o 172.188.27.4:2101

## P5.) Ingrese a “Básic Serial Settings”



Configure los parámetros de la comunicación serial, y presione “Apply”, para guardar los cambios.

A screenshot of the 'Connect WAN 3G Configuration and Management' page. The 'Serial Port Configuration' section is active, showing 'Basic Serial Settings' expanded. The settings include: Description: 'Nombre de ejemplo', Baud Rate: '9600', Data Bits: '8', Parity: 'None', Stop Bits: '1', and Flow Control: 'Software'. The 'Apply' button at the bottom is circled in red. A sidebar on the left contains navigation links for Home, Configuration, Applications, and Management. The Digi logo is visible in the top left and bottom right corners.

# P6.) Ingrese a “Multiple Electrical Interface (MEI) Serial Settings”

**Digi**

## Connect WAN 3G Configuration and Management

Changes have been saved successfully.  
A reboot is recommended for these changes to take effect.

Home

**Configuration**

- Network
- Mobile
- Serial Ports
- Camera
- Alarms
- System
- iDigi
- Users
- Position

**Applications**

- Python
- RealPort

**Management**

- Serial Ports
- Connections
- Event Logging
- Network Services

**Administration**

- File Management
- X.509 Certificate/Key Management
- Backup/Restore
- Update Firmware
- Factory Default Settings
- System Information
- Reboot

Logout

### Serial Port Configuration - Nombre de ejemplo

- ▶ Port Profile Settings
- ▼ **Basic Serial Settings**

Description:

Baud Rate:

Data Bits:

Parity:

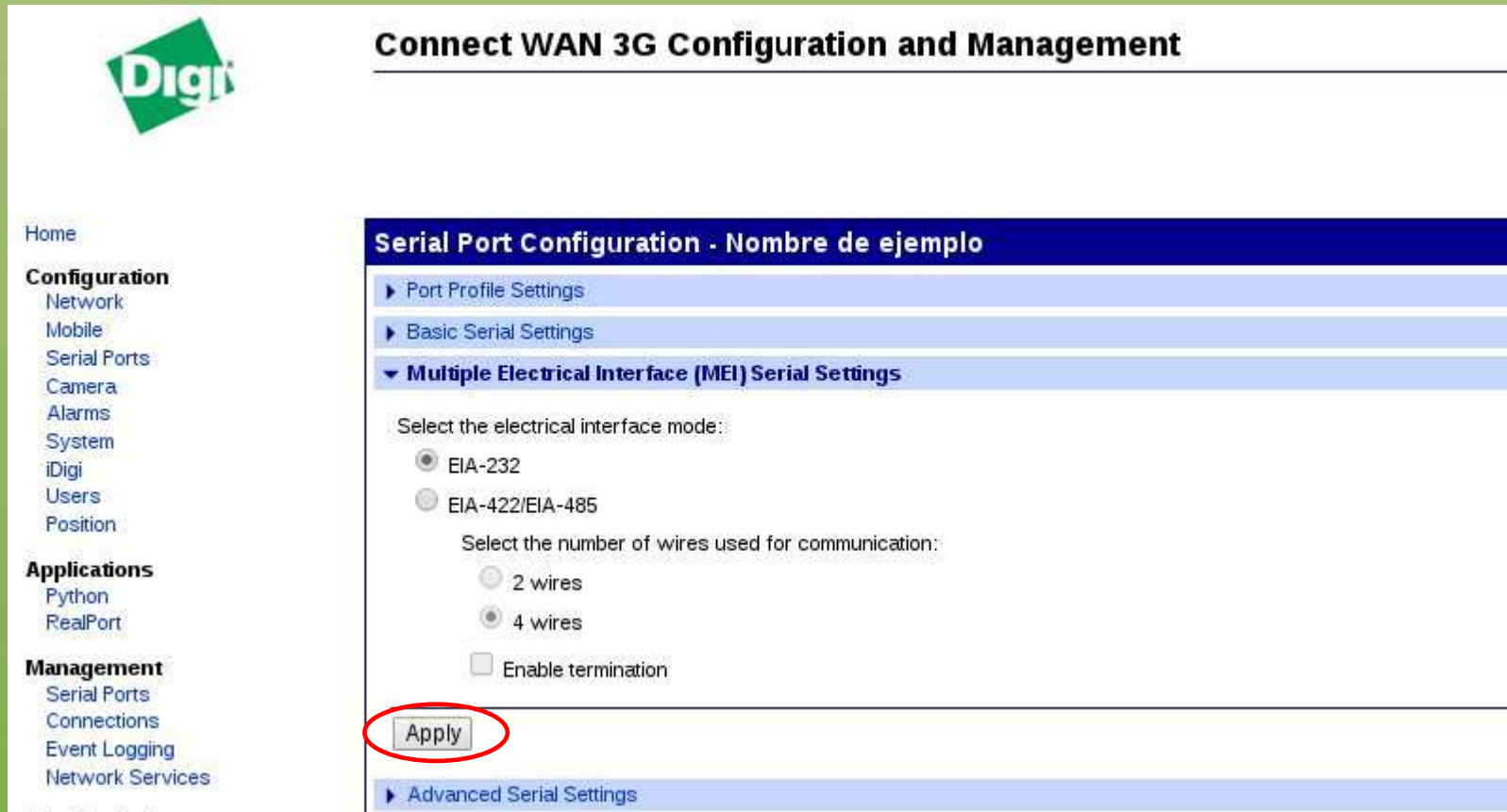
Stop Bits:

Flow Control:

- ▶ **Multiple Electrical Interface (MEI) Serial Settings**
- ▶ Advanced Serial Settings



**Paso 7) Establezca el tipo de norma de la interfaz serial a utilizar (RS-232, 422, 485), luego presione “Apply”, para guardar los cambios.**



The screenshot displays the Digi Connect WAN 3G Configuration and Management web interface. The page title is "Serial Port Configuration - Nombre de ejemplo". The left sidebar contains a navigation menu with sections: Home, Configuration (Network, Mobile, Serial Ports, Camera, Alarms, System, iDigi, Users, Position), Applications (Python, RealPort), and Management (Serial Ports, Connections, Event Logging, Network Services). The main content area shows the "Multiple Electrical Interface (MEI) Serial Settings" section. It includes the following options:

- Select the electrical interface mode:
  - EIA-232
  - EIA-422/EIA-485
- Select the number of wires used for communication:
  - 2 wires
  - 4 wires
- Enable termination

The "Apply" button is circled in red, indicating the step to save the configuration. Below the form, there is a link for "Advanced Serial Settings".

**Nota: Paso disponible a ser modificado únicamente para modelos IA. Ej: Digi Connect wan 3G IA**

# P8.) Ingrese a “Advanced Serial Settings”

The screenshot shows a web-based configuration interface. On the left is a navigation menu with categories: Home, Configuration (Network, Mobile, Serial Ports, Camera, Alarms, System, iDigi, Users, Position), Applications (Python, RealPort), Management (Serial Ports, Connections, Event Logging, Network Services), and Administration (File Management, X.509 Certificate/Key Management). The main content area is titled "Serial Port Configuration - Nombre de ejemplo" and contains a tree view with "Port Profile Settings", "Basic Serial Settings", and "Multiple Electrical Interface (MEI) Serial Settings" expanded. Under the expanded section, there are radio buttons for "EIA-232" (selected) and "EIA-422/EIA-485", followed by radio buttons for "2 wires" and "4 wires" (selected), and a checkbox for "Enable termination". An "Apply" button is visible. At the bottom of the main content area, a link for "Advanced Serial Settings" is highlighted with a red circle.

Home

**Configuration**  
Network  
Mobile  
Serial Ports  
Camera  
Alarms  
System  
iDigi  
Users  
Position

**Applications**  
Python  
RealPort

**Management**  
Serial Ports  
Connections  
Event Logging  
Network Services

**Administration**  
File Management  
X.509 Certificate/Key Management

**Serial Port Configuration - Nombre de ejemplo**

- ▶ Port Profile Settings
- ▶ Basic Serial Settings
- ▼ **Multiple Electrical Interface (MEI) Serial Settings**

Select the electrical interface mode:

- EIA-232
- EIA-422/EIA-485

Select the number of wires used for communication:

- 2 wires
- 4 wires
- Enable termination

Apply

▶ **Advanced Serial Settings**

P9.) Si necesita que el Digi envíe un ID determinado, habilite la casilla “Send Socket ID”, en “TCP Settings”, finalmente presione “Apply”, para guardar los cambios

The screenshot displays the 'Serial Port Configuration - Nombre de ejemplo' web interface. On the left is a navigation menu with sections: Configuration (Network, Mobile, Serial Ports, Camera, Alarms, System, iDigi, Users, Position), Applications (Python, RealPort), Management (Serial Ports, Connections, Event Logging, Network Services), and Administration (File Management, X.509 Certificate/Key Management, Backup/Restore, Update Firmware, Factory Default Settings, System Information, Reboot). The main content area is titled 'Serial Port Configuration - Nombre de ejemplo' and contains several expandable sections: Port Profile Settings, Basic Serial Settings, Multiple Electrical Interface (MEI) Serial Settings, and Advanced Serial Settings. The Advanced Serial Settings section is expanded, showing 'Serial Settings' with options for 'Enable Port Logging' (Log Size: 32 KB), 'Enable RTS Toggle' (Pre-Delay: 0 ms, Post-Delay: 0 ms), and 'Enable RCI over Serial (DSR)'. Below this is the 'TCP Settings' section, where the 'Send Socket ID' checkbox is checked and the 'Socket ID' field contains the text 'ID DEL EQUIPO SERIAL'. Other options in TCP Settings include 'Send data only under any of the following conditions:' with sub-options for 'Send when data is present on the serial line' (Match string: ) and 'Strip match string before sending', and 'Close connection when DSR goes low'. At the bottom of the page, the 'Apply' button is circled in red. Two red dotted arrows point from the 'Apply' button back to the 'Send Socket ID' checkbox and its corresponding text field.

A cada momento que presione **Apply** al configurar el puerto serial, aparecerá un mensaje en la parte superior como el siguiente:



Este cuadro nos indica 2 informaciones importantes:

- a) Que los cambios han sido guardados.
- b) Que es recomendado reiniciar el equipo para que los cambios surjan efecto.

**P10.)Test:** Una vez realizados los pasos, y haya reiniciado el Digi para que las configuraciones tengan efecto, puede realizar el siguiente test para verificar que la configuración haya sido correcta.

Conectar un loopback al Digi para generar retorno en el puerto serial e iniciar una sesión en hyperterminal apuntando a la IP del Digi más el puerto elegido para la sesión Raw. Al levantar la comunicación, podrá escribir datos, éstos datos serán enviados al puerto serial, los cuales serán devueltos por el loopback pudiendo ser vistos en la pantalla, si esto es posible, quiere decir que la configuración del puerto serial es correcta.

## Hyperterminal



**Ante Cualquier inquietud, no  
dude con comunicarse con  
nosotros**

[sosporte@wamtech.com](mailto:sosporte@wamtech.com)

Ricardo Cuevas

ricardo.cuevas@wamtech.com

**wamtech**  
Wireless & Mobile Technologies

