Certainly! Here's an updated code snippet that includes a basic authentication mechanism:

```python
import requests

device_ip = "<device_ip>"
username = "<username>"
password = "<password>"

# Step 1: Determine the API endpoint
device_endpoint = f"http://{device_ip}/api/device/info"

# Step 2: Establish a connection
session = requests.Session()
session.auth = (username, password)

# Step 3: Send a request
response = session.get(device_endpoint)

# Step 4: Retrieve the device information
if response.status_code == 200:
    device_info = response.json()
    manufacturer = device_info.get("manufacturer")
    model = device_info.get("model")
    firmware_version = device_info.get("firmware_version")
    serial_number = device_info.get("serial_number")
```

```
    print(f"Manufacturer: {manufacturer}")
    print(f"Model: {model}")
    print(f"Firmware version: {firmware_version}")
    print(f"Serial number: {serial_number}")
else:
    print("Unable to retrieve device information")

# Step 5: Handle the device information
# Replace this code with your specific logic to handle the device information
# such as displaying, storing, or using it for further interaction with the device
```

Make sure to replace `<device_ip>`, `<username>`, and `<password>` with the actual values for your device's IP address, username, and password, respectively.