

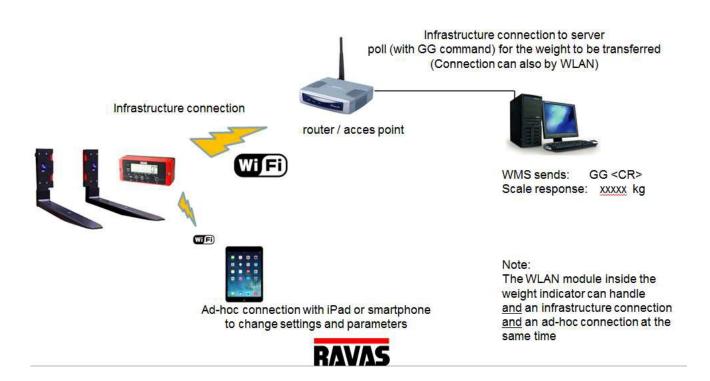
Manual

XPICO240 WLAN module inside RAVAS indicators

RAVAS indicators can be equipped (option) with a WLAN module – this to respond to IT systems which poll for weight information. The RAVAS indicator will get a dedicated IP address.

Customer has to provide a full WLAN coverage in the warehouse using Access Points

The operator gives a command to the main application on the server to poll for the weight at a certain RAVAS weight indicator (using GG command) - The weight indicator responds by sendingthe actual display value.





Configuring the WLAN connection with the Xpico using a laptop

Important note:

You will see the name of the Xpico SSID in your list of WLAN signals There are two models of Xpico

- XpicoWiFi_xxxxxxxx
- Xpico240_xxxxxxxx

Please make sure you also use the correct manual!!

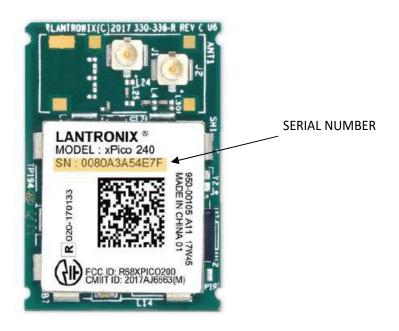
Step 1: select the WLAN connection manager.





Step 2: connect to the xPico240_CD0FC9 (last six digits depend on the address of the Xpico installed). By default the SoftAP mode is enabled with a default SSID of xPico240_xxxxxx. Where xxxxxx are the last six characters of the unique xPico 240 serial number. This number is available on the module label. For example if the serial number on label were 0080A54E7F then the SSID would be Xpico240_A54E7F.





Step 3: Using the Wi-Fi Connection Manager of your connecting device the above SSID should be also should be $presented \, as \, an \, available \, connection \, choice. \, Select \, the \, SSID \, and \, follow \, the \, device \, connection \, and \, connection \, choice \, connection \, choice \, connection \, choice \, choic$ manager instructions to continue toconnect.

The default security for xPico 240 SoftAP is WPA2 and the passphrase is PASSWORD. These defaults can be changed through the configuration web manager after the initial connection has been established.

When prompted enter the passphrase to complete the Wi-Fi connection authentication process. With a Wi-Fi client set to the above parameters, your device can connect directly to the xPico 240 Soft AP. In the WLAN manager you will see the connection being established.

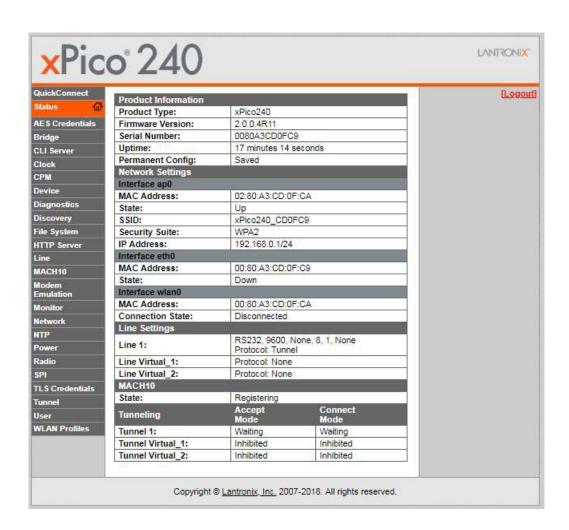




Step 4: Open a standard browser (E.g. Internet Explorer®, Firefox®, Chrome™, Safari® etc.) and in the address field of the browser enter the following URL; xPico200.lantronix.com or alternatively use 192.168.0.1 as the IP Address.

When prompted enter the username of admin and password PASSWORD to access the Configuration and Management Web pages as shown below.







By clicking Network > Network 1 > Link to get to the Configuration page, the SSID, Security Suite Type and Security and passphrase can be modified. Modification to any of these parameters requires a reset/power cycle of the module in order to takeeffect.



It is recommended that you record any changes you make.

SSID:	
Security Suite:	
Encryption:	
Passphrase:	





In 'Tunnel'/'Accept' set 'Flush Line' to Enable this can be useful when operating in a busy area where many devices share the same Access Point.



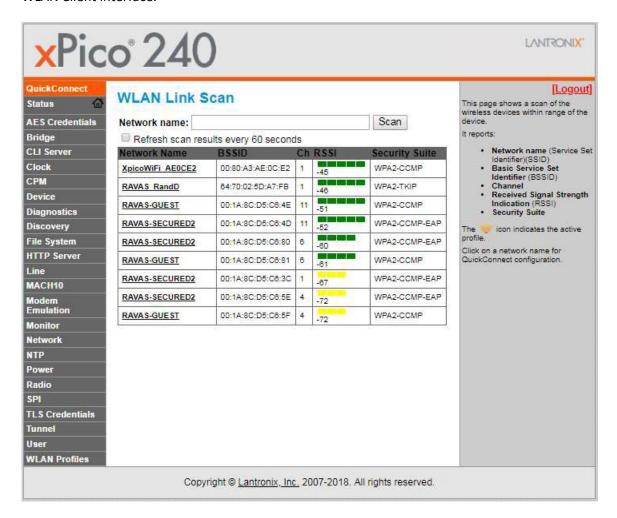
TIP when needed – you can use the <u>default button for</u> a total reset of the unit (press and hold for more than 6 s.)
The internal red LED will start flashing when default cycle is finished

Important to have the coax cable installed not parallel with other cables - -this to prevent interference.



QuickConnect (WLAN 0 - infrastructure)

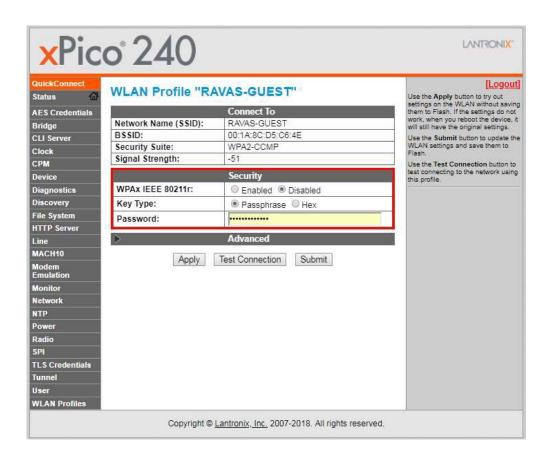
QuickConnect offers the ability to configure the WLAN Client interface on xPico 240 to establish connection to an active Access Point. QuickConnect learns most of the connection properties from the available Access Points and prompts the user only for the security parameters and saves the settings under a corresponding new/existing WLAN profile for future autonomous operation of the WLAN Client interface.



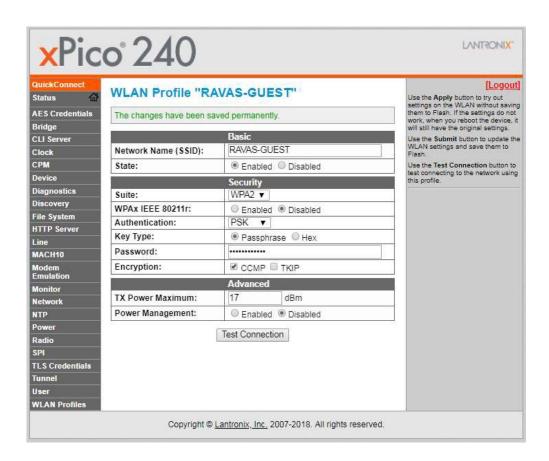
Upon selection of the QuickConnect option, the xPico 240 scans and displays up to 20 wireless devices in order of strongest signal strength at the top. Click on a network name to view the connection to that desired Access Point.

When the selected Access Point profile displays, enter the password and click Submit to directly connect to the Access Point and to add the profile and configuration details to the WLAN profiles.



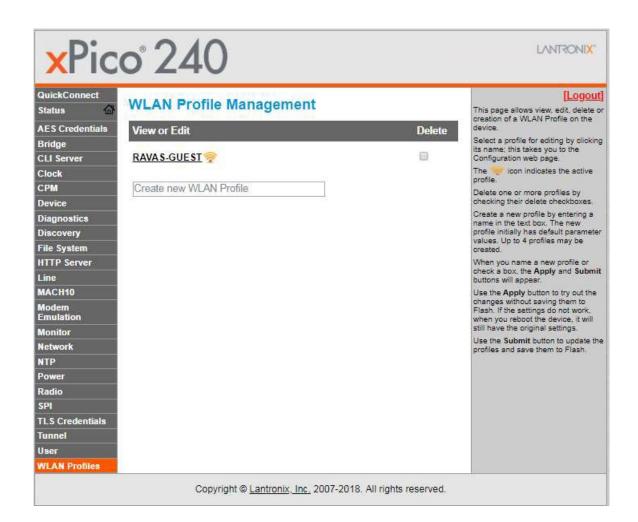






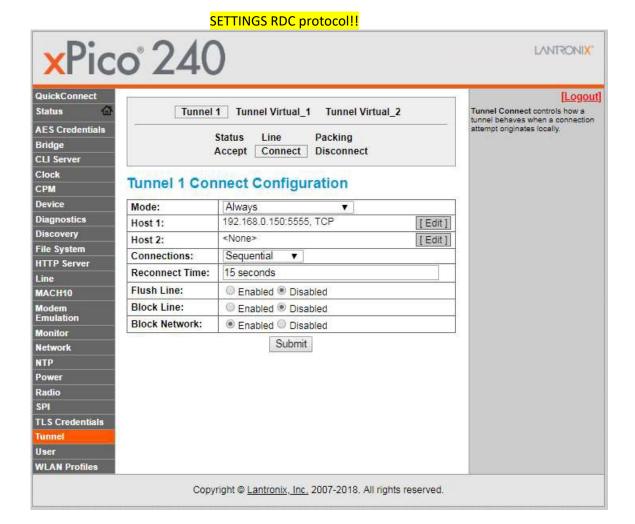
Once added, the Quick Connect profile is connected and is accessible and configurable through WLAN Profiles.





TIP: Delete all other profiles except the one you want to work with





Weight information is sent by the indicator using the PRINT key and using Wi-Fi.

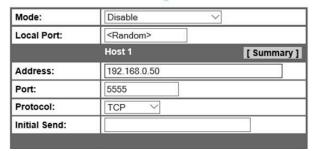
The Xpico inside the RAVAS 3200 or 5200 indicator has to send the data to the RDC server. Therefore the Xpico needs to know the static IP address of the RDC server.

To do this, go to:

Tunnel / Tunnel 1 / Connect / Host 1 >> click on [edit]







Address: > enter server static IP address

Port: > enter 5555

Click on Submit / confirm to store this entries permanently

Configuration methods

For the unit to operate correctly on a network, it must have a unique IP address on the network. There are three basic methods for logging into the device server to assign an IP address and configure the unit:

- * Device Installer: Assign an IP address and view the current xPico configuration using a Graphical User Interface (GUI) on a PC attached to a network. (See 3 Using Device Installer.)
- * Web-Manager: Through a web interface, configure the xPico and its settings using the xPico's Web-Manager. (See 4 Configuration Using Web Manager
- * Serial & Telnet Ports: There are two approaches to accessing Serial Mode. Make a Telnet connection to the network port (9999) or connect a terminal (or a PC running a terminal emulation program) to the unit's serial port. (See 5 Configuration via Telnet or Serial Port (Setup Mode))

Reference Documentation

For more information on the use and operation of the xPico 240Device Server please refer to the latest product documents which are available on the Product Website. www.lantronix.com and key in the Site Search box 'Xpico200'

RAVAS Europe B.V.



Technical data xPico 240

Network

Wireless LAN Specifications

- IEEE 802.11 a/b/g up to 54 Mbps; 802.11 n (1x1) up to 150 Mbps
- · 20 and 40 MHz channel width with optional SGI
- Dual Band 2.4 GHz and 5 GHz, Channels 1-13, UNII-1, 2a, 2e and 3
- · Supports IEEE 802.11 d/h/i

Data Communication

- TruPort® Serial Technology— TCP and UDP Server Mode, TCP and UDP Client Mode, Multi-host Connect; TLS Client and Server
- TruPort® Socket— Multi-host Client and Server Modes, HTTP(S), Sockets. TLS
- · Authenticated SMTP Support Send email directly from device

Security and Authentication

- · TruPort® Security Software
- Secure Boot, Secure Firmware-Over-the-Air (FOTA) Updates
- Secure Key Storage, Encrypted Configuration
- Secure Connections with SSL/TLS, HTTPS
- Software Controlled Network Service Ports Enable/Disable
- Role Based Access Control
- AES/CCMP and TKIP encryption, WPA/WPA2 Personal
- · WPA2 Enterprise (EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST)
- SSLv3/TLS 1.2 with PKI and X.509 Certificates (up to 4096-bit Keys)
- · AES Algorithm, 256-bit, 192-bit, 128-bit

Management Interfaces

- . Lantronix MACH10™ IoT Software Platform, REST, MQTT,
- · Lantronix Discovery Protocol (77FE)
- · Serial Port, Internal Web Server (HTTP/HTTPS)
- XML Configuration and XML Status (CLI, API)
- · Secure Firmware Upgrade via HTTP, MACH10 Gateway Manager
- · Remote management with Lantronix Gateway Central™

Protocol Support

- DHCP Client, Server (Soft AP), HTTP Server/Client
- · IPv4, TCP/IP, UDP/IP, ARP, ICMP, Auto-IP, DNS

Wireless Features

- · Concurrent Soft AP + STA (Client), Client, Soft AP
- · Up to 6 simultaneous client connections to Soft AP interface
- Up to 4 in Concurrent Mode
- Connect to multiple WLAN networks, WLAN QuickConnect
- Ethernet to Wi-Fi Client Bridge (Single Host Mode), Auto-MAC ID

Certifications & Compliance

- Type Approvals: USA (FCC Part 15), Canada (IC RSS), EU (RED), Japan (MIC), China (SRRC), AU/NZS
- Safety: IEC 62368, EN 62368, EN 62311, UL 60950
- · RoHS, REACH