PMXNOW0300

WiFi access point, 3-port Ethernet bridge & repeater (WDS) for M340 & M580 PLCs

Technology approved by Schneider Electric

- Direct connection to M340/M580, single slot backplane compatible module
- Hot swappable module during operation for simplified maintenance
- WiFi IEEE 802.11 a/b/g (2.4 / 5 / 5.4 GHz), up to 108 Mbps
- Up to 5 Km range with external antenna, 300m LOS with standard antenna
- Security : WEP, WPA-PSK, WPA2-PSK & IEEE 802.1X RADIUS
- Web based configuration, SNMP administration
- 3-port auto-sensing 10/100 Base TX, auto MDI-MDIX network interface

FAST ROAMING

abg WiFi

RoHS WEEE COMPLIANT

YEAR 5 WARRANTY

Introduction

PMXNOW0300 is a single slot backplane compatible module that allows the M340/M580 processors to interface easily with the WiFi wireless network in order to communicate with devices located remotely.

It can be used either as access point to create the wireless network infrastructure, bridge to connect network equipments or even as repeater to extend the wireless network coverage.

The module offers point to point or point to multipoint communication schemes and supports all Ethernet based protocols including MODBUS/TCP & Ethernet/IP.

Thanks to its built-in WEB interface, the setup of the module is easily achieved using any web browser, module also offers SNMP and NDM (Network Device Manager) configuration and administration.

Technical characteristics overview

Ethernet link	3-port Ethernet 10/100 auto-sensing, plug & play mode & auto MDI/MDIX cross-over One port is reserved for the M340/M580 CPU or M340/M580 NOE connection. When connected to the M340/M580 Ethernet port, PMXNOW0300 ports are considered as "Slave". If connected to the M340/M580 NOE Ethernet port instead, PMXNOW0300 ports are considered as "Master", distributed I/O operation is then fully supported (I/O Scanner).
WiFi network	Compliant to the IEEE 802.11a/b/g/h 2.4 / 5 GHz standards, multi-country roaming support (IEEE 802.11d); Dynamic Frequency Selection (DFS) support provides flexible selection of best frequency to allow mobility among existing networks; «ClearVoice» band provides non-overlapping channels for fast data transmission; Transmission Power Control (TPC) offers flexibility to adjust RF output power.
Data rate	Up to 108 Mbps (Super AG mode)
Channels	2.4 GHz (802.11b/g): 14 channels / 5 GHz (801.11a/h): 24 channels
Output power	Transmitter +20 dBm (100 mW) with Transmit Power Control (TPC)
Sensitivity	Receiver -92 dBm for IEEE 802.11 a/g and -95 dBm for IEEE 802.11b
Antenna	2dBi 2.4 & 5 GHz antenna, RP-SMA connector
Modulation	OFDM: BPSK, QPSK, 16QAM, 64QAM and DSSS: DBPSK, DQPSK, CCK
Security	64/128 bits WEP, WPA-PSK, WPA2-PSK, IEEE 802.11x (RADIUS authenticator & supplicant), MAC addresses filtering, SSID broadcast control
Modes	Access point to build a WiFi network infrastructure, bridge to connect any Ethernet, MODBUS/TCP or Ethernet/IP equipment to this network, repeater (WDS), infrastructure, AD-HOC, bridge router & fast roaming (less than 50 ms) modes are supported
Administration	Thanks to its built-in WEB interface, the setup of the device is achieved using any web browser installed on your computer (Internet Explorer, Netscape, Mozilla ...), SNMP agent, ACKSYS NDM
Signaling	LEDs signaling for LAN, WLAN network activity, 10/100 mode and RF level
Power Supply	Powered from M340/M580 +24VDC backplane
Consumption	3.5 W typical power consumption
Hot swap	Module is hot swappable during operation for simplified maintenance
Dimensions & weight	Small sized enclosure L: 97 x W: 32 x H: 104 mm, weight 200 g
Environment	Operating temperature: -20°C to +70°C (HR 5-95% non-condensing), storage: -40°C to +80°C

Ordering references

PMXNOW0300	WiFi access point, 3-port Ethernet bridge & WDS repeater (a/b/g/h) module for M340/M580 backplane, shipped with 1 dual band 2 dBi omni-directional (2.4 / 5 / 5.4 GHz) and the M340/M580 to PMXNOW0300 Ethernet connecting cable