

WL-245N-S

802.11n Industrial Wireless Module

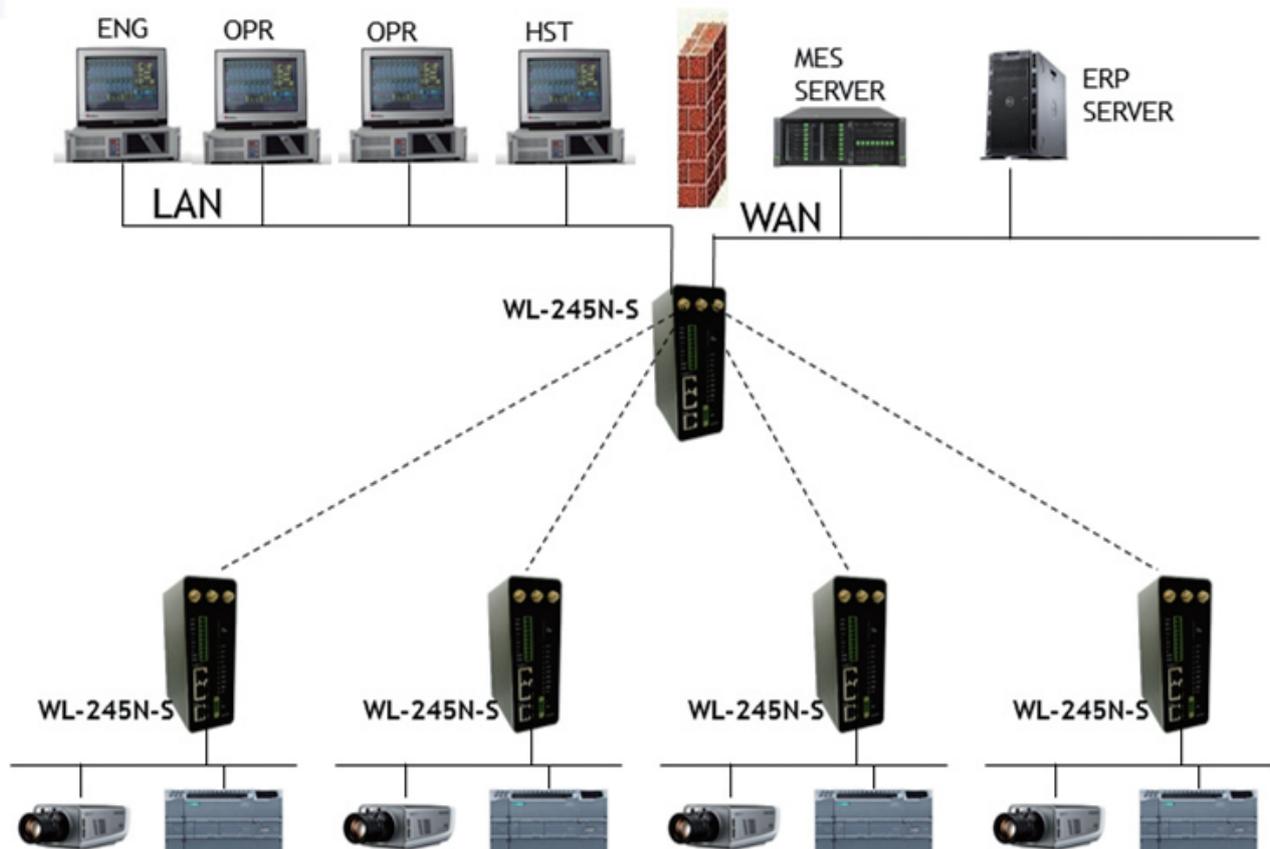
Description:

WL-245N-S is designed for the industrial, It is a powerful 802.11n industrial wireless module; It can be applied to Oil & Gas, Coal-Mining, Iron & Steel, Water, New-Energy and other industrial system. Connected your PLC, VFD, DCS, instruments via the wireless technology.

The wireless module based on the 802.11n MIMO technology, three RJ45 Port was designed for the module, one port is Rs232 serial port; the other two ports are 802.3 Ethernet ports; one port for WAN, and the other is LAN; Except that the module can support IO signal transmission (2DI, 2Do, 1AI (4-20mA)), you can send your transmitter data to PLC & HMI by 802.11n. The GPS function also integration into the module, so we can get the location information of industrial devices. The time information also can be get from the GPS module.

Different from the two layer wireless switch, WL-245N-S has two Ethernet port, one is WAN port and the other is LAN port; the system in different IP segment can be connected through the WL-245N-S module with powerful firewall.





Features:

- 300 Mbps RF Rates (MIMO)-Multicast,
- Support routing function, static routing list can be set by webpage
- Powerful Firewall function, Port forward, NAT
- Video Monitoring and Automation Control Simultaneously
- Single webpage setup by field personnel
- 2 port 10/100 Ethernet WAN/LAN switch with routing function
- Support WiFi 802.11a/b/g/n
- Support Channel-Binding
- Centralized management of wireless security policies
- Supports dynamic or static IP addresses assigned by Server
- Wireless IO signal transmit
- Data priority can be controlled by QoS
- 40°C to +70°C -Operation in all outdoor conditions, rugged construction withstands all operating environments

Technical specifications:				
Wireless Standards	Support IEEE 802.11n, 802.11h, 802.11i, 802.11a, 802.11g (Legacy) wireless operation standard			
Channel data rates (802.11a/g)	802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps			
Frequency Band	2.400 GHz to 2.4835 GHz 5.150 GHz to 5.850 GHz	1 to 13 36 to 165		
Transmit Power (Programmable)	20 dBm (802.11an/gn)			
Channel data rates (802.11n)	MCS0 through MCS15, 1 Channel or 2 Channels with 1 Stream or 2 Streams			
	1 Channel	2 Channels	Rate	Streams
	7 Mbps	15 Mbps	MCS0	1 Stream
	72 Mbps	150 Mbps	MCS7	
	14 Mbps	30 Mbps	MCS8	2 Streams
	144 Mbps	300 Mbps	MCS15	
Receiver Sensitivity (Typical)	-94 dBm @ MCS0, MCS8 (802.11an/gn) -72 dBm @ MCS7, MCS15 (802.11an) -75 dBm @ MCS7, MCS15 (802.11gn) -94 dBm @ 6 Mbps (802.11an/gn) -76 dBm @ 54 Mbps (802.11a) -81 dBm @ 54 Mbps (802.11g)			
Security	64/128-bit WEP (Wired Equivalent Privacy) WPA & WPA-PSK & WPA2 -PSK (Wi-Fi Protected Access) MAC ID filter			
Network Feather				
Advanced Firewall Features	Network Address Translation (NAT) State full Packet Inspection (SPI)			
Media Access Control	CSMA/CA with ACK			
Others	WiVPN, DHCP, DNS, DDNS, ICMP			
HardWare Specificaton				
Size	Width 5.3 inches x Height 3.7 inches x Depth 1.6 inches			
Weight	1.2lbs (543g)			
Enclosure	Aluminum DIN-Rail			
Interface	2xRJ45(10/100Mbps), 1xRs232, 3x SMA			
Operation Temperature	-40°C - 70°C			
Storage Temperature	-40°C - 85°C			
Shock	IEC 60068 2-6 (20g, 3-Axis)			
Vibration	IEC 60068 2-27 (5g, 10Hz to 150Hz)			
Humidity	95% Maximum (Non-condensing)			
Power	10-31VDC			
Power consumption	Idle: 130mA@24VDC Max: 250mA@24VDC Average: 160mA@12VDC			
Humidity	Up to 95% RH, with no condensation			
External Power PoE Injector	10 Vdc to 24 Vdc			
Average Power Consumption	less than 9 Watts			