RF45-PRO

Serial gateway to WiFi

ARF45 are a family of Serial to Wifi gateways. They permit an **immediate connection of any serial device** to a Wifi network with an **enhanced level of security.**

Available in a ready to use **IP65 case**, they allow a data wireless link over **200m.**

The range comes in two versions:
• **«Standard» model** proposes RS232 / RS485 interface & complies with the 802.11b and 802.11g network standards with **WPA-PSK (personal)** security.
• **«Pro» model** works in RS232. In addition to all standard features, it complies with the 802.11i standard with an «advanced» **WPA-2 Enterprise** security protocol.

Both versions incorporate **«Roaming» technology,** making it possible to connect to the nearest Wifi access point and/or the one with the strongest radio signal automatically. This ensures a reliable and uninterrupted connection to the network whatever the environment for applications requiring mobility.

In order to make their use and deployment easy, they have an **on-board web server** accessible via any standard internet browser (I.E., Firefox). In addition, they offer the option of creating an **XML file** enabling users to save and duplicate a standard configuration.

They are the ideal networking solution for applications requiring a maximum level of security in sectors such as robotics, logistics and industrial computing.

▶ Technical specifications

Radio features	ARF45	ARF45-PRO
Frequency	2.412 to 2.484GHz	
Radiated RF power	32mW	
Range	200m	
Bit rate	11Mbits/s & 54Mbits/s	
UART data rate	2.4 to 921.6kbps	
Sensitivity	-82dBm	
Modulation	DSSS	
Gateway interface		
Serial port	RS232	
Flow control	RTS/CTS	
Configuration	RS232 - Telnet / HTTP	
Modes	Transparent	
Protocols		
Supported protocols	TCP-IP, BOOTP, ICMP, ARP, UDP, SNMP, DHCP, TFTP, Telnet, HTTP, HTTPS, Auto IP, SMTP	Same as standard version + v2C, FTP, PPP, SSL/TLS, SSH, RSS, DNS
Security		
Network standard	802.11b, 802.11g	802.11b, 802.11g, 802.11i
Security	WEP64 WEP128 WPA-PSK	Same as standard version + WPA2-PSK + WPA2-Enterprise (EAP-TLS, EAP-TTLS, PEAP, LEAP)
General information		
Power supply range	8 à 30V	
Consumption	< 1.2W	
Temperature range	-30 / +70°C	
Dimensions & Enclosure	145 X 100 X 40mm - boitier IP65	
Standard compliance	EN 300-328	

▶ Part numbers

ARF7532I   WiFi gateway - **ARF45**
ARF7532K   WiFi gateway - **ARF45-PRO**

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