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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China




# FL BLUETOOTH AP

Order No.: 2737999



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2737999>

Factoryline Wireless Bluetooth Access Point, Bluetooth V2.0, 2.4 GHz frequency band, 1 wireless interface, WLAN-BlackChannelList, LEM, country approvals, IP20, COMBICON connection 9 - 30 V DC, RJ45 connection LAN, DSUB9-RS-232, SMA(f) antenna connection

Commercial data	
GTIN (EAN)	4  046356 042932
sales group	K004
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 214 (AX-2009)

#### Product notes

WEEE/RoHS-compliant since:  
11/14/2006



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

## Technical data

Ethernet interface	
Interface	Ethernet
Number	1
Type of connection	RJ45 female connector

#### Wireless interface

Name	Bluetooth
Wireless standard	Bluetooth 2.0
Frequency range	ISM 2.4 GHz
Frequency band	ISM 2.4 GHz
Transmission power	max. 14 dBm (with automatic control)
Number of wireless interfaces	1
Wireless modules that can be connected	7
Profiles supported	LAP, PAN, SPP

#### Wireless card

Number	1
Type	Bluetooth 2.4 GHz up to 1 Mbps
Assembly instructions	Permanently installed

#### Antenna

Assembly instructions	External OMNI antenna, antennas can be exchanged
Number	1
Type of connection	SMA (male)

#### Power supply for module electronics

Type of connection	Via COMBICON
Supply voltage	24 V DC
Supply voltage range	9 V DC ... 30 V DC
Supply current	200 mA
Current consumption	200 mA (at 24 V DC)

#### Functions

Operating modes	Access point / Ethernet client adapter / (COM server)
Configuration	Web-based management
Automatic channel selection	FHSS, AFH
Security	128-bit data encryption
	MAC filter
	Authentication
	PIN
	Non-discoverable

**General data**

Width	80 mm
Height	65 mm
Depth	25 mm
Weight	95 g
Mounting type	Wall mounting
Ambient temperature (operation)	-30 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 90 % (no condensation)
Permissible humidity (storage/transport)	10 % ... 95 % (no condensation)
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above mean sea level)
Degree of protection	IP20
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Wireless licences	Australia (Special rule: Please contact the Product Manager)
	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Israel
	Italy
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	The Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Russia (Special rule: Please contact the Product Manager)
	Sweden
	Switzerland
	Singapore
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Turkey
	Hungary
	USA
	Cyprus (rep.)



**Certificates / Approvals**



Certification CUL Listed, UL Listed

Certification Ex: CUL-EX, UL-EX

**Accessories**

Item	Designation	Description
<b>Antennas</b>		
2884936	RAD-ISM-2400-ANT-CIR-8-0	Panel antenna with a special type of polarization (circular) for applications in a highly reflective environment (highly metallic industrial hall). The antenna prevents polarization loss and can attain higher profits in this environment.
2884923	RAD-ISM-2400-ANT-OMNI-5-0	Omni-directional antenna, degree of protection IP55, 5 dBi gain, linear vertical, SMA (male), impedance 50 ohms, apex angle h/v 360°/45°
2867610	RAD-ISM-2400-ANT-PAN- 8-0	Panel antenna, degree of protection IP55, 8 dBi gain, linear vertical, SMA (female), impedance 50 ohms, apex angle h/v 75°/70°
2885867	RAD-ISM-2400-ANT-VAN- 3-0-SMA	Omnidirectional antenna with protection against vandalism, 3 dBi gain, IP55 protection, 1.5 m cable length, SMA (male) connection, apex angle h/v 360°/85°. Appropriate assembly material is available for wall mounting.
2692526	RAD-ISM-2459-ANT-FOOD-6-0	Dual band omnidirectional antenna with protection against vandalism; IP68 protection; frequency band/gain: 2.4 GHz/up to 6 dBi, 5 GHz/up to 8 dBi; EN 50155; temperature range: -40°C to +80°C; N (f) connection; 1 m long adapter cable, N (m) - SMA (m) connection.
<b>General</b>		
2884949	FL BT ADAPTER	The DIN rail adapter is required to snap the Bluetooth devices FL BLUETOOTH AP, FL BT MOD IO AP, FL WLAN SPA and FL BT SPA onto a DIN rail. To do this, it is mounted on the respective device using the two enclosed screws.
<b>Software</b>		
2692254	FL WST BASIC	Simulation software for supporting the planning of wireless systems in industrial environments. Thus, the later number and position of wireless components can be estimated and the quality of the radio coverage simulated.

2692377	FL WST BASIC DEMO	Simulation software for supporting the planning of wireless systems in industrial environments. Their functionality is limited with regard to the memory options as compared with the full version FL WST BASIC.
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**Address**

PHOENIX CONTACT Deutschland GmbH  
Flachmarktstr. 8  
32825 Blomberg, Germany  
Phone +49 5235 3 12000  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.de>



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