

# FL BT EPA - Wireless module



2692788

<https://www.phoenixcontact.com/us/products/2692788>

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Factoryline Wireless Bluetooth Ethernet port adapter; 2.4 GHz frequency band, 1 wireless interface, WLAN black channel list, LEM, country approvals, IP65, connections: M12 connection for 9 V DC ... 30 V DC, M12 for LAN, autocrossing, compatible with PROFINET and PROFI-safe

## Product description

Our Bluetooth modules can be used to easily, reliably, and cost-effectively integrate mobile or difficult to access automation devices or I/O modules into your Ethernet automation network.

With "black channel listing" and "low emission mode", Industrial Bluetooth can also be operated parallel to WLAN networks without any interference. Quick and straightforward startup with configuration via MODE button, web interface or directly from a controller is yet another feature of this solution.

## Your advantages

- WLAN coexistence functions AFH, LEM, black channel listing
- Protocol-transparent communication on Layer 2
- Degree of protection IP65
- Integrated special antenna (EPA)
- Range\* of up to 200 m

## Commercial data

Item number	2692788
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNN2B1
GTIN	4046356422413
Weight per piece (including packing)	244.1 g
Weight per piece (excluding packing)	120 g
Customs tariff number	85176200
Country of origin	SE

## Technical data

### Product properties

Product type	Wireless module
Product family	AS-i
Type	Stand-alone

### Wireless card

Number	1
Assembly note	Permanently installed

### Electrical properties

Maximum power dissipation for nominal condition	1.104 W
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### Supply: Module electronics

Connection method	M12 connector, A-coded (male)
Supply voltage	24 V DC
Supply voltage range	9 V DC ... 30 V DC
Supply current	46 mA (at 24 V DC)
Current consumption	46 mA (at 24 V DC)

### Input data

#### Digital:

Number of inputs	1
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### Interfaces

#### Ethernet

Interface	Ethernet
Number	1
Connection method	M12 connector, D-coded (female)

#### Antenna

Number	1
Connection method	permanently installed

#### Functions

Operating modes	Ethernet client adapter
Configuration	Web interface, MODE button, AT commands (TCP/IP), SSC
Automatic channel selection	FHSS, AFH
Quality of service (QoS)	Yes
Security	128-bit data encryption
	Authentication
	PIN
	Non-discoverable

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Wireless licenses	Europe, additional countries in the e-shop
Country support	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Italy
	Japan
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
Switzerland	
Slovakia	
Slovenia	
Spain	
Czech Republic	
Hungary	
USA	
Cyprus (rep.)	

## Wireless

Designation	Bluetooth
Antenna connection method	(Internal)
Frequency range	2.402 GHz ... 2.48 GHz (ISM bandwidth)
Frequency band	2.4 GHz
Wireless standard	Bluetooth 2.1 + EDR
Transmission power	max. 15 dBm (EIRP)
Number of wireless interfaces	1

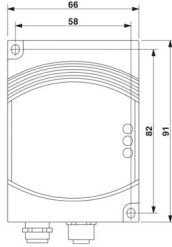
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Wireless modules that can be connected	1
Profiles supported	PAN

## Dimensions

Dimensional drawing	
Width	66 mm
Height	91 mm
Depth	34 mm
Note on dimensions	Without M12 connections

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-40 °C ... 65 °C
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 90 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 90 % (non-condensing)

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

Mounting type	Panel mounting
	Panel mounting
Assembly note	Internal circularly polarized panel antenna

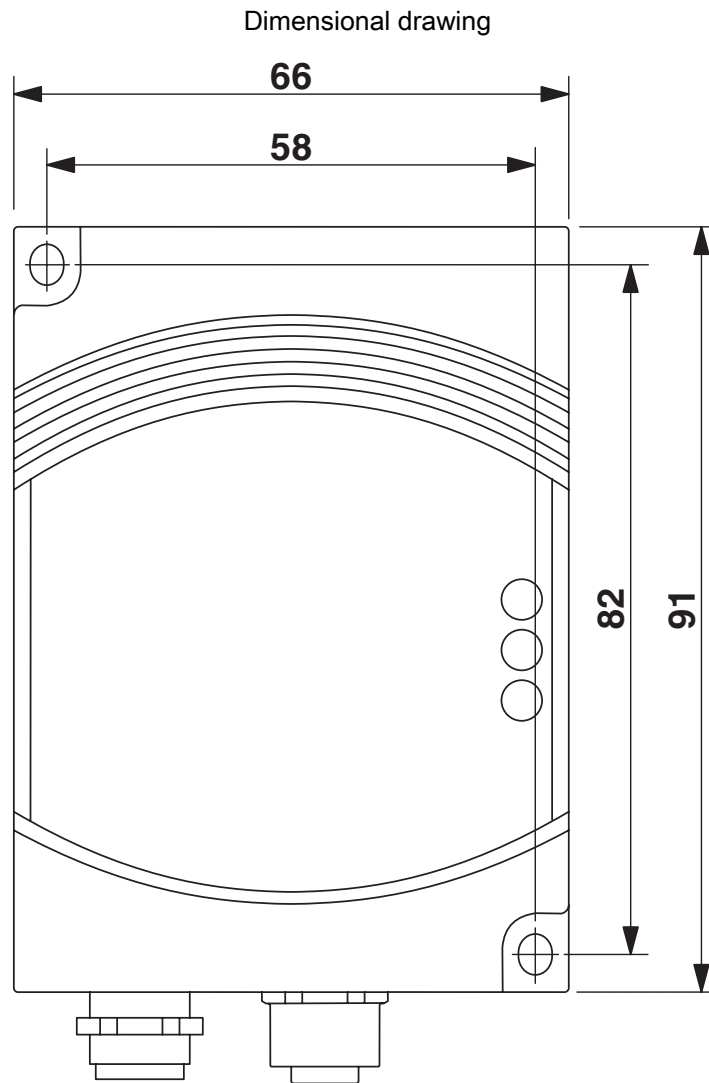
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## Drawings

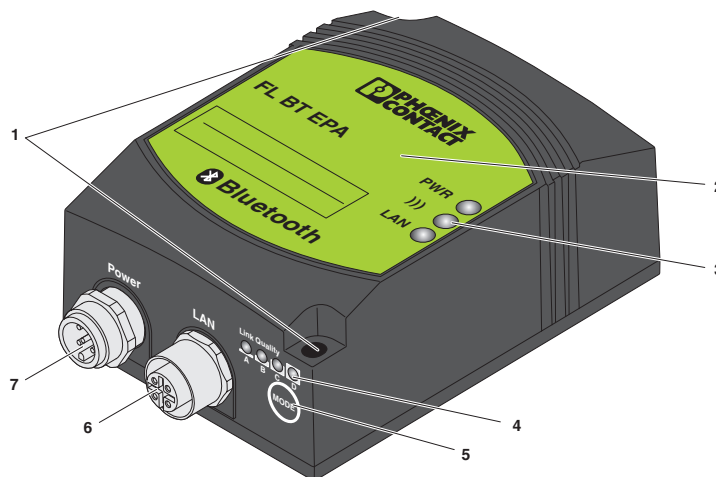


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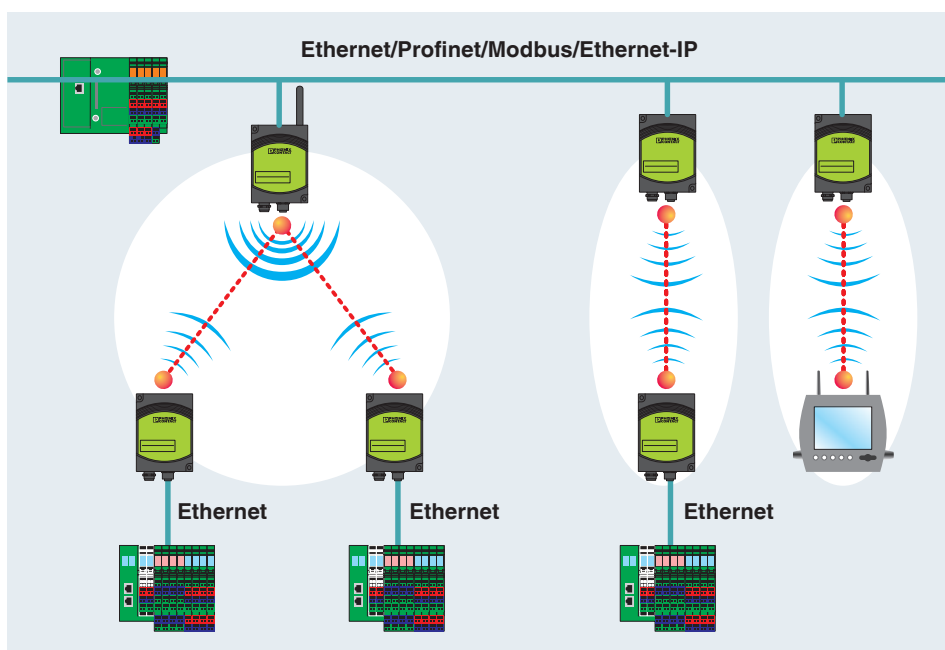
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Product drawing



- 1 Fixing holes
- 2 Internal circular polarized antenna
- 3 Status and diagnostic indicators
- 4 Link quality and configuration / status indicator
- 5 Mode configuration button
- 6 LAN interface
- 7 Supply voltage connection

Application drawing



FL BT EPA devices help you to transmit industrial Ethernet protocols from one automation device to another via Bluetooth: for Modbus TCP, Ethernet/IP, TCP/IP or demanding PROFINET or PROFI-safe applications.

The FL BT EPA AIR SET is a "ready to use" package. Unpack, connect, press the mode button and the wireless path is ready to work in just a few seconds! The FL BT EPA AIR SET can be used to set up an extremely solid and reliable wireless transmission path.

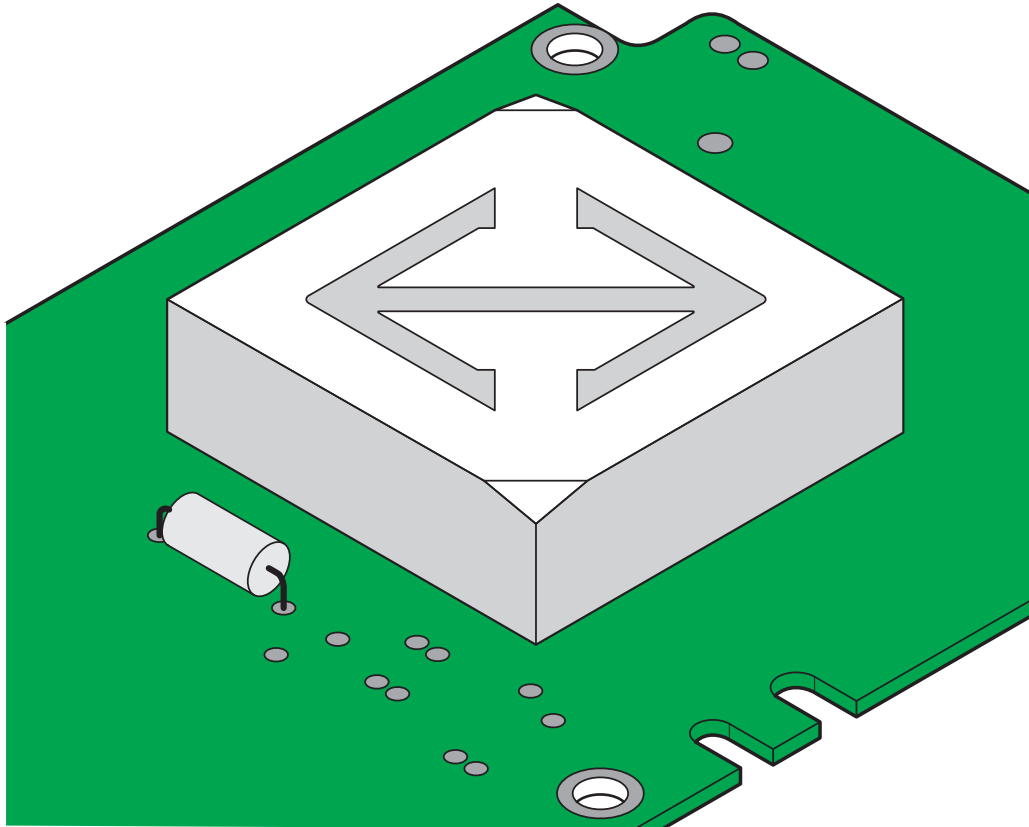
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Functional drawing

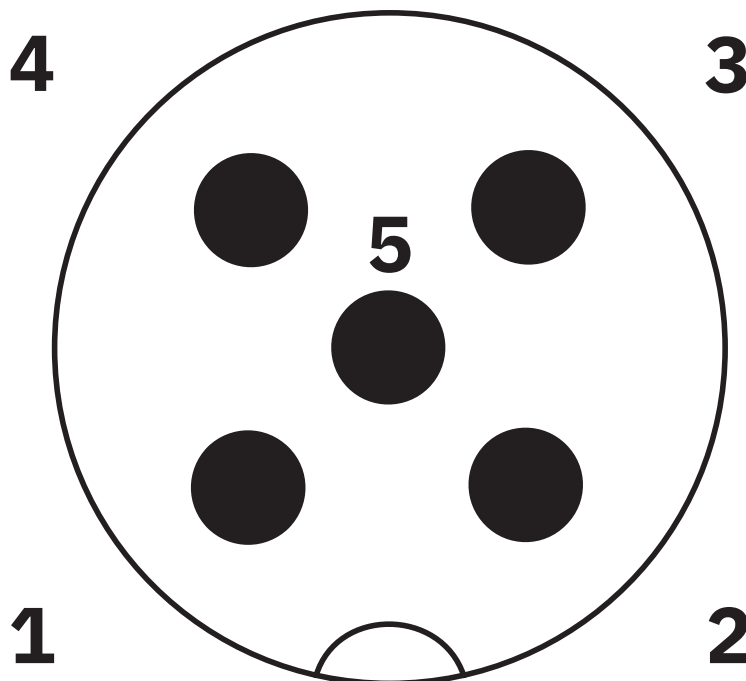


Circular polarized antenna

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Schematic diagram



## Connection of the trigger input DI and the supply voltage

PIN 1 Vin + (9-30 V DC)

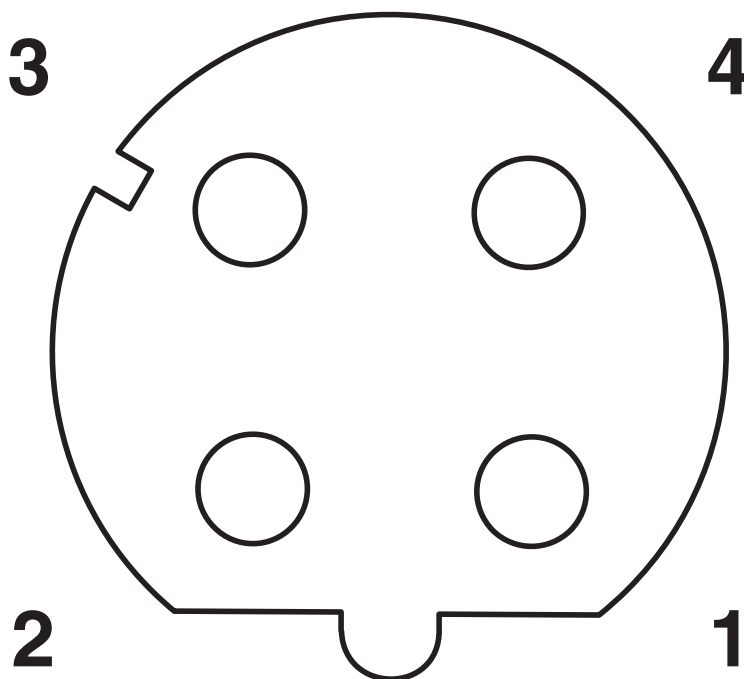
PIN 2 External Trigger Ground

Pin 3 Vin GND (0 V)

Pin 4 External Triggerr + (9-30 V DC)

Pin 5 n.c.

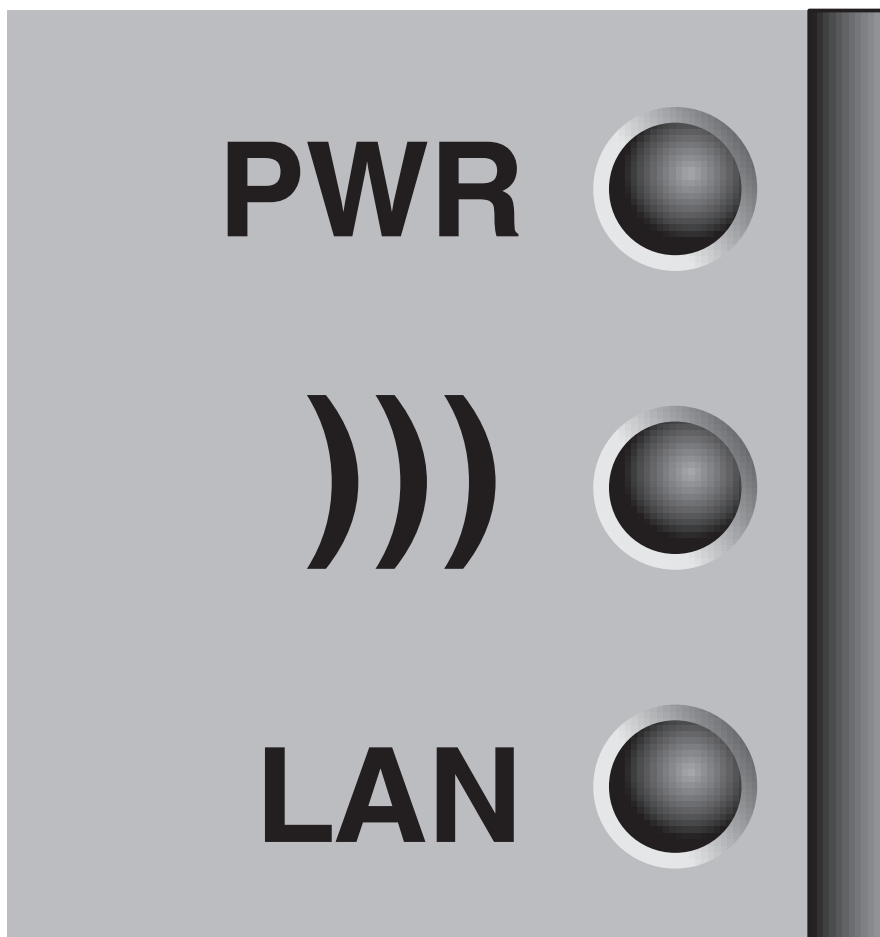
Schematic diagram



## Assignment of the LAN socket

- Pin 1 Transmit +
- Pin 2 Receive +
- Pin 3 Transmit -
- Pin 4 Receive -

## Schematic diagram



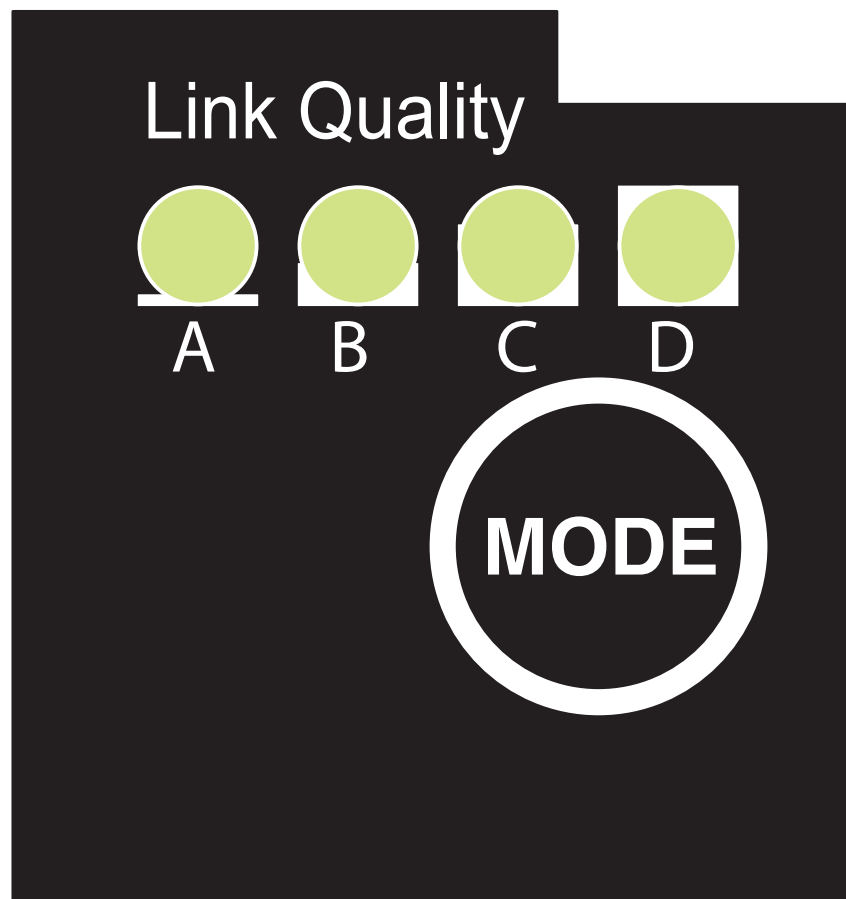
### Status and diagnostic indicators PWR (green)

- Supply voltage is active ))) (blue/blue flashing, pink, red) Status of the Bluetooth connection (blue)
- Data transmission (blue flashing)
- Connection establishment (pink)
- Error (red)

### LAN (yellow)

- Link display (yellow)
- Data transmission (yellow flashing)

## Schematic diagram



### MODE button

The mode button helps in configuration.

Pay attention to the function in the data sheet and the manual.

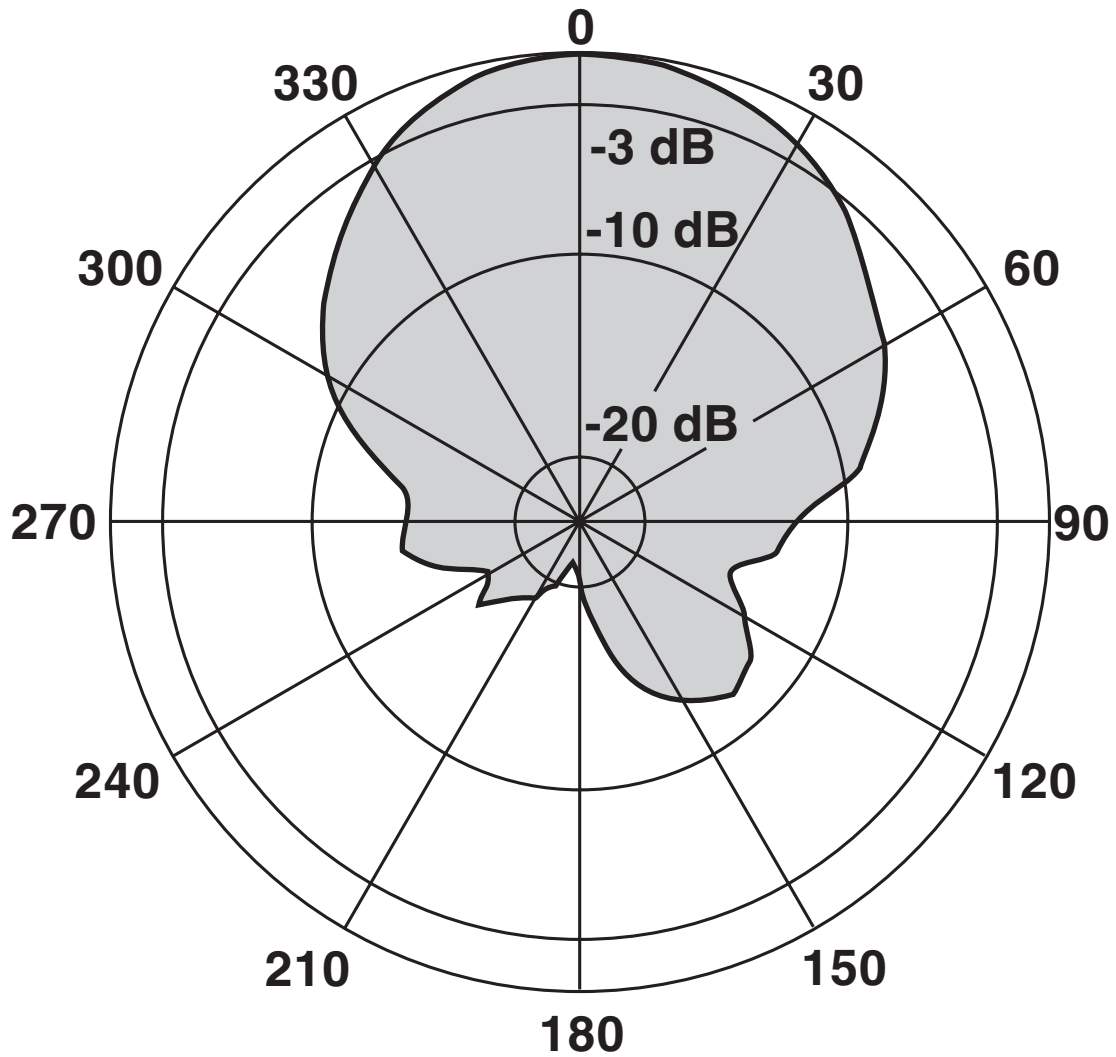
The LEDs 'A' to 'D' help in status display.

### Link Quality display (during operation)

A = sufficient, B = good

C = optimum, D = excellent

Diagram



Antenna adjustment diagram

HP - Horizontal polarization

VP - Vertical polarization

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)