Specification sheet / Inquiry for quotation for radio transmission boards, units, equipment or systems

This specification sheet allows the systematic capture of all requirements regarding a wireless product to be constructed or provided. Based on these data a quotation, a product concept or a specification can be developed.

We assure confidence for all given data and exclusivity only for drafting a quotation, a product concept or a specification. Please note our general conditions and terms for development services: http://ik-elektronik.com/downloads/agb_entwicklung.pdf (German only)

Please send back the spec sheet after filling out via:

Fax: +49 (037465) 4092-100

Email: info@ik-elektronik.com

Post: IK Elektronik GmbH
Sales
Hammerbrücke
Friedrichsgrüner Str. 11-13
08262 Muldenhammer
Germany

We are looking forward to answering your interesting request!

Copyright information

User information

- Please fill out all known facts and answer all questions.
- Multiple choices possible.
- If a question is not applicable, please left open.
- If necessary or useful for understanding your inquiry or your answer need more space, please attach documents.
- Please attach documents manually when sending the specification sheet per email.

1. General data

company:		
address:		
contact person:		
position:		
contact:	phone:	
	fax:	
	mobile:	
	Email:	
name of the project:		

category:
- ☐ complete system
- ☐ components / boards

Application / Short description / Principle of operation:

branch of business:
- ☐ home automation
- ☐ industrial
- ☐ automotive
- ☐ medical
- ☐ military
- ☐ security
- ☐ other:

planned regions for use:
- ☐ Germany
- ☐ Europe:
- ☐ USA
- ☐ Asia:
- ☐ Worldwide
- ☐ other:

Description of existing components, equipment or results:

Existing industrial designs, patents, trademarks, brands or similar products:

development target:
- ☐ feasibility study / preliminary investigation
- ☐ demonstration sample
- ☐ prototype
- ☐ pilot series
- ☐ series

quantities:	number of demonstration samples:	
	number of prototypes:	
	quantity of pilot series:	
	quantity of series (one shot):	
	quantity of series (per anno):	
schedule:	start of development:	
	end of development:	
	sampling date:	
	start of production (series):	
	runtime of production (series):	

Special requirements regarding design process:
(E.g. Client standards, quality management, FMEA)

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commercial registry Chemnitz, HRB 22126
CEO: Jan-Erik Kunze, Frank Gützold
tax ID number: DE 814 407 549

intended co-operation between developer and client or other parties during design process:
(E.g. hardware and software development, component deliveries)

other information:

2. System description

type of device:
- ☐ stationary
- ☐ portable
- ☐ mobile

enclosure:
- ☐ none
- ☐ existing
- ☐ to be determined

transmission:
- ☐ unidirectional, transmitter only
- ☐ unidirectional, receiver only
- ☐ unidirectional, transmitter and receiver
- ☐ bidirectional, transceiver

microcontroller:
- ☐ with microcontroller
- ☐ without microcontroller
- ☐ external programming possible
- ☐ Other:

interface:
- ☐ serial
- ☐ parallel
- ☐ RS-432 / RS-485
- ☐ USB
- ☐ keyboard
- ☐ Controller – Controller (SPI, I^2C)
- ☐ analog bandwidth:
  signal level:
- ☐ isolated potential needed
- ☐ other:

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sensors / actors:
(E.g. displays, keys, temperature sensors, opto component, please attach sketches or descriptions if applicable)

radio protocol:
(Please attach software description, if available.)

- ☐ to be determined
- ☐ transparent
- ☐ proprietary solution (to develop)
- ☐ own standard (existing)
- ☐ general standard:
- ☐ encryption
- ☐ addressing
- ☐ Master-Slave configuration / polling
- ☐ duty cycle (interval)
  interval time:
- ☐ radio network
- ☐ error detection
- ☐ error correction

transmission distance:

- ☐ free space distance (meter):
- ☐ indoor distance (meter):
  environmental description:

- ☐ directional transmission possible (directional antennas)

antenna:

- ☐ internal (e.g. PCB or enclosed)
- ☐ external
- ☐ existing

life time(E.g. for battery operation):

required latency period for transmission:

other information:

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3. Electrical characteristics

frequency range:
- ☐ to be determined
- ☐ 434 MHz ISM (EU)
- ☐ 868 MHz ISM (EU)
- ☐ 915 MHz ISM (US)
- ☐ 2,4 GHz ISM (worldwide)
- ☐ 5,8 GHz ISM (worldwide)
- ☐ other:

modulation:
- ☐ to be determined
- ☐ ASK / OOK
- ☐ FSK / GFSK
- ☐ frequency hopping
- ☐ Spread Spectrum Modulation (OFMD, DSSS, …)
- ☐ other:

channels:
- ☐ one channel
- ☐ multi channels
  number of channels:

frequency stability +/-: ☐ ppm

transmission power: ☐ mW or ☐ dBm

input sensitivity: ☐ dBm @ data rate or bandwidth ☐ kbit/s /kHz

adjacent channel suppression, robustness against interferers (please describe):

power supply:
- ☐ mains voltage (AC)
- ☐ battery
- ☐ accumulator
- ☐ stabilized
- ☐ un-stabilized
- ☐ other:

power supply range: ☐ V

current consumption:
- transmit mode: ☐ mA
- receive mode: ☐ mA
- standby mode: ☐ µA

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startup- /wakeup time: [ ] mS

other information:

4. Environment requirements

operating temperature: [ ] °C

storage temperature: [ ] °C

relative humidity: [ ] %

degree of protection IP: [ ]

resistance to vibration / mechanical stress (please describe):

other information:

5. Dimensions and Geometry (please attach sketches, pictures or drawings)

dimension and type of PCB:

dimension and type of enclosure:

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type and arrangement of interface connectors or cable connections::

other information:

6. Conformity / Standards

radio / EMC standards: (R&TTE)
- ☐ emission
- ☐ immission
- ☐ safety
- ☐ EMF (Health)

radio / EMC standards: (other)
- ☐ FCC:
- ☐ other:

product specific standards:

internal standards of client:

internal test procedures of client:

environment standards:
- ☐ RoHS
- ☐ other:

other information:

Attachments:

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