

KAlphys

KAlphys – the KNX TP1 Physical Layer

„ The hardware solution KAlphys revolutionizes the KNX TP Physical Layer.“

KAlphys is the first KNX interface based on standard components, available for all users, without ASIC. KAlphys is a superior solution that enables high flexibility in usage combined with a high level of signal processing quality, a very wide range of provided energy from the bus. This original product allows cost effective KNX solutions. The fact that no custom specific ASIC is necessary and the possibility of choosing among various options in different modules allows an extraordinary potential for stream lining the hardware design of your future products. KAlphys offers maximum performance combined with high flexibility. The innovative circuit is the hardware component of the technology platform KAI (KNX Advanced Interface) for KNX enabled bus devices. KAlphys, together with KAlstack forms the basis for complete KNX devices. Hardware and software components of KAI can be adapted according to given conditions.

KAlphys provides you with a chance to easily replace your presently existing solution in order to improve technical performance and optimize product costs.

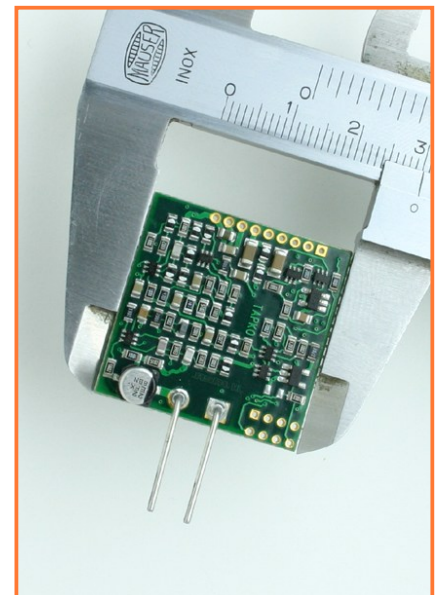
KAlphys is KNX certified.



The efficient connection

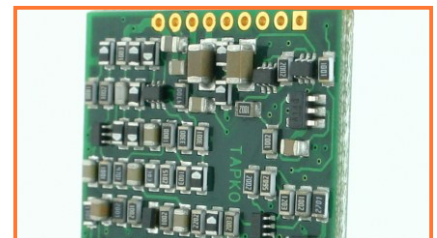
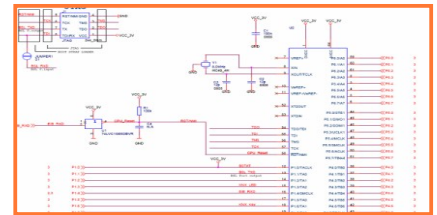
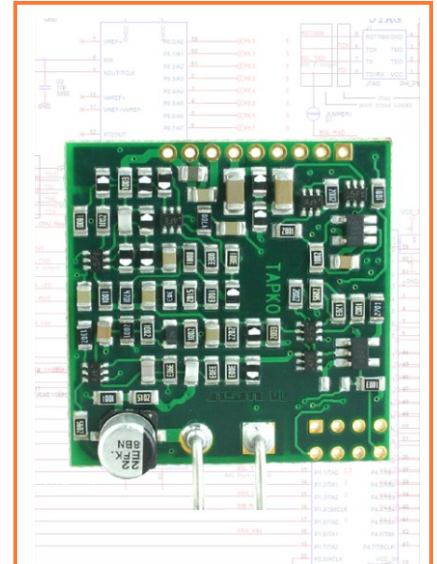
Advantages

- Standard components - no ASIC
- Cost effective KNX solutions
- Maximum performance
- High flexibility
- Modular
- Adaptable
- KNX certified

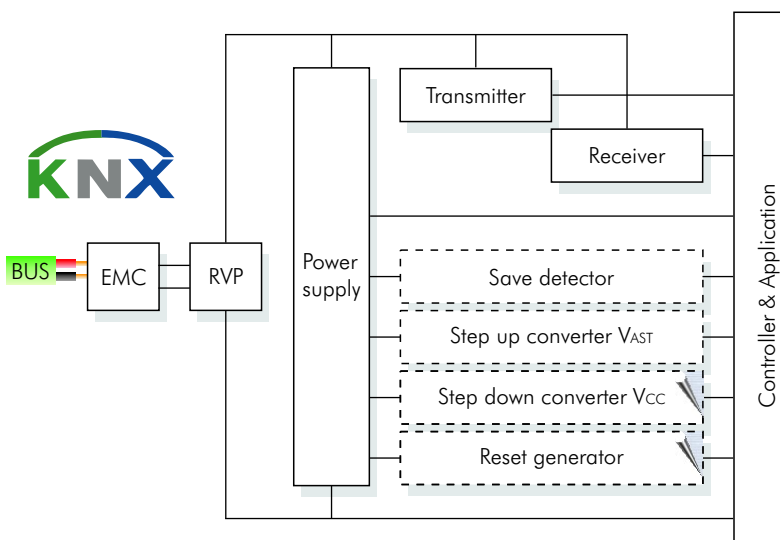


Data

	min.	typ.	max.
Bus side			
Input voltage (operational)	20 V		30V
Input current (max. depending on load)	1 mA		
Reverse voltage protection			-100 V
Transient voltage protection			43 V
Application and CPU side			
Native supply output voltage V_{NSUP}	11 V	12 V	13,5V
Supply output current @ V_{NSUP}	0 mA		40 mA
Energy provided for application		480 mW	
Optional			
Save signal active @ V_{BUS}	18 V		
V_{AST} step up converter output voltage		21 V	
V_{AST} step up converter output current	5 mA		
V_{CC} step down converter output voltage	1,8 V	3,3 V	5,5 V
Reset signal active @ V_{NSUP}	<7 V		



Architecture



007.002 E

The data contained herein are subject to change without notice.

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