


KNX-FM		Product Group 1
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	KNX-FM The KNX-FM is a free programmable logic module with an KNX-Interface. It is housed in a 107 mm wide DIN Rail mounted housing. Programming is done by the Program ArcSuite. Free download at www.arcus-eds.com	40020186

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1.1 Application Description

Operating Principals and Areas of Application

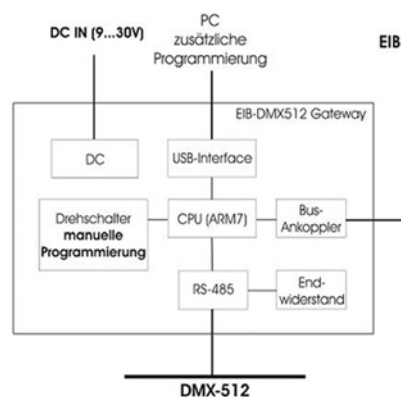
The KNX-FM Modul is a logic module, which is used in EIB / KNX Systems. It is characterized by the free programming in the forth language interpreter. The 50 MHz Arm processor allows fast 32-bit integer operations and 64-bit floating point calculations. A self-compiling command interpreter produces fast and compact code. Additionally, the module KNX-FM contains programmable control and display elements.

The KNX-FM delivered an RS232 and an RS485 interface (DMX).

Functions

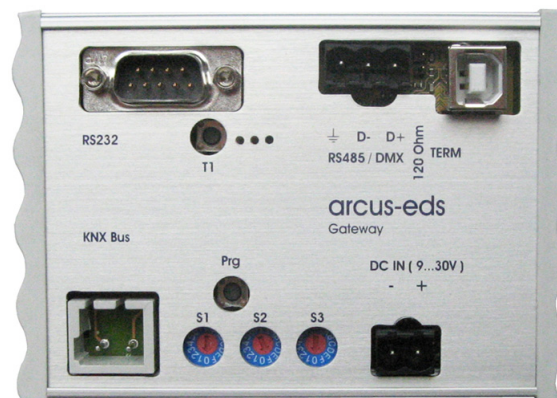
- 8 kB of RAM memory for programs and data
- 16 programmable timer with 1 / 100 sec resolution
- programs and data can be permanently stored in flash
- 1 button for starting a specific user-defined function
- Specially adapted for functions EIB / KNX communication elements user, date and time
- Documented processor interfaces for individual EIB / KNX solutions (2x serial interface). There to is Microcontroller knowledge required.
- supply via USB or EIB / KNX, auxiliary voltage required
- Programming on the ArcSuite software

Functional Diagram



1.2 Initial Operation

Connections	Pin	Belegung	
Clamp RS 485 / DMX	Ground D - D +	GND (0V) Data - (B) Data + (A)	Screw clamp are included
D-Sub 9-pol male RS232	Pin 2 Pin 3 Pin 5	RxD TxD GND	
Clamp DC IN (9 .. 30V)	minus plus	0V VDC 9 .. 30V VDC	Screw clamp are included
Clamp KNX-Bus			Clamp block KNX are included



Switch the power supply on.

The switches **S1**, **S2** and **S3** and the Pushbutton **T1** can be freely programmed.

The **physical address** is programmed with the ETS through a dummy application using the (**Prg**) button.

Using the Jumper **J1 (120R TERM)** the RS485 Bus is set with a 120 Ohm load resistor.

The KNX Bus is galvanically separated from the serial connectors.

The power supply is galvanically separated from the serial connectors and the KNX Bus.

1.3 Technical Data

Dimensions	Inside 92 x 71 x 24 mm Outside 107 x 75 x 31 mm
Protection Class	IP20
Mounting	Rail Mounted Device (6 TE)
Temperature Range	-5 °C .. 45 °C
Controls	3 16-level Rotary Switch 1 Button User 2 LED User 1 EIB Button+LED
KNX-Connection	KNX-Clamp Block
KNX-Supply	20 .. 32VDC / ca. 150mW
DMX-Connector	3x Screw clamp 0,8mm ²
Terminating Resistor RS485	120 Ohm via Jumper
Forth - Programmierung	USB-Slot with PC-Software Arcsuite (Nur Forth-Anwender, für zusätzliche Tools)
Power Supply	9 .. 30VDC, 100mA internal galvanically separated polarized defect-proof
RS485 RS232	250 kBaud, galvanically separated 115.2 kBaud, max

Imprint

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