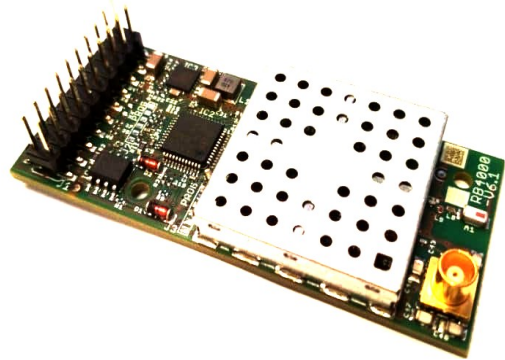


ROBE wireless DMX/RDM module

Type: RW 001

ROBE wireless DMX/RDM module has full support for wireless communication protocols at entertainment market. Modul is based on well known LumenRadio RF technology, with implemented wire interface for connection with Robe products. RF output for MCX interface antenna as standard output.

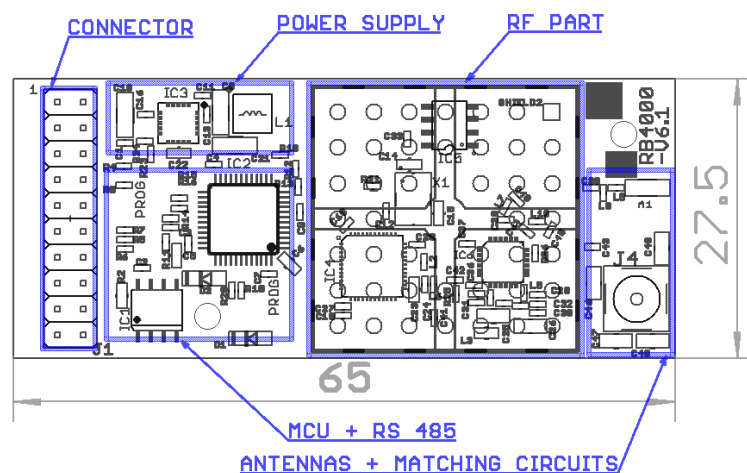
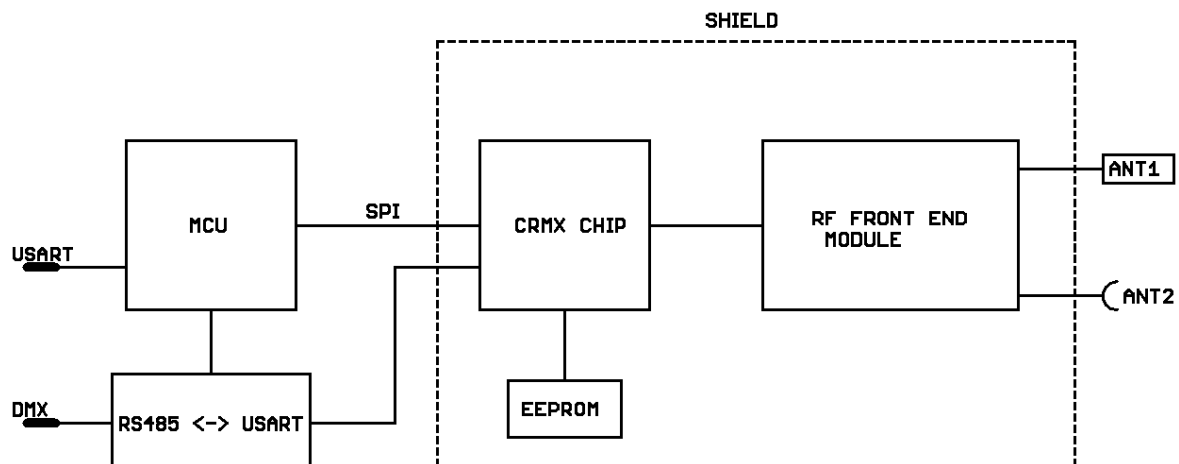


Supported protocols

Full RDM support

CRMX, W-DMX™ G2, G3, G4 and G4S

Block diagram + PCB blocks



Absolute maximum ratings

VDD	Supply voltage	-0,3V to 7V
Va, Vb	RS485 signals A, B	-10V to 15V
-	Other pins	-0,3V to 4V
Tstorage	Storage temperature	-40 to 125°C

Operating conditions

Symbol	Parameter	Min.	Typ.	Max.	Unit
VDD	Supply voltage (pin 5 to GND)	4.75	5.0	5.25	V
IDD	Supply current (into pin 5)			40	mA
TA	Operating temperature	-20		70	°C
VIL	Input voltage logic low (pin 7, 11, 12)	-0.3		1,16	V
VIH	Input voltage logic high (pin 7, 11, 12)	1,54		3.6	V
Va, Vb	RS485 signals (pins 8, 9 to GND)	-7		12	V
Va-b	RS485 differential (Pin 8 to 9)			12	V
frange	Operating frequency range	2402		2480	MHz
RXsens	Receiver sensitivity (0.1% BER)		-93		dBm
Pout	Output power			100	mW

Connectors

Module communication connector	General purpose 2.54 header
RF connector	MCX – receptacle female socket

Connector pinout

1	NC	11	TX_W
2	NC	12	RX_W
3	NC	13	NC
4	GND	14	NC
5	+5V	15	NC
6	NC	16	NC
7	LINK_W	17	NC
8	DMX_A	18	NC
9	DMX_B	19	NC
10	GND	20	NC

Compliance

ETSI EN 300 328

FCC certified

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The [Device] wireless operation is safe and complies to RF Exposure requirements