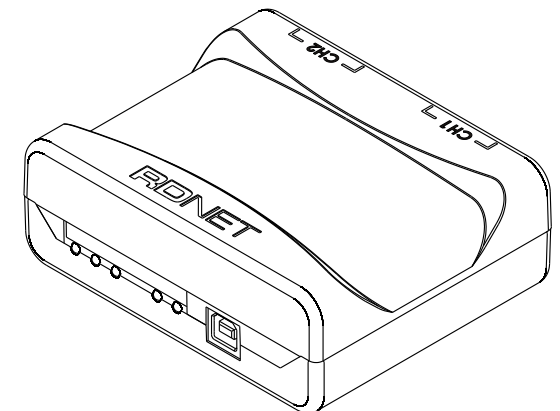
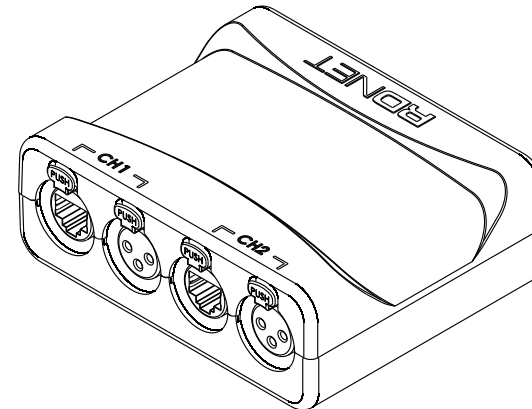


RDNET

CONTROL 2

Master Control Unit



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MANUALE d'uso - SEZIONE 1
USER MANUAL - SECTION 1
bedienungsanleitung - Abschnitt 1
caracteristiques techniques - section 1



Made in Italy

COD. 420120189 Rev 2.0



DESCRIPTION

RDNET CONTROL 2 is an hardware interface to connect dB Technologies RDNET compatible devices (DVA T12, DVA S30N, etc.), to a Personal Computer (PC) by means of an USB connection.

The RDNET system was purposely developed to create a data network for monitoring and command of more systems. The RDNET CONTROL 2 unit can manage up to 2 subnets. Up to 32 devices can be connected to each subnet (2 subnets x 32 = total 64 devices).

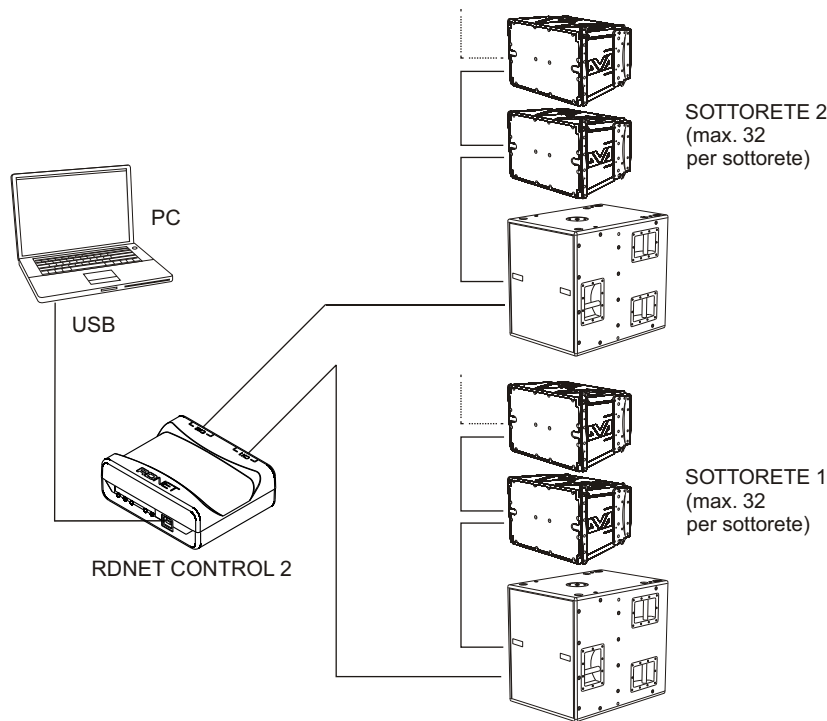
The addressing of the various devices is handled automatically by RDNET CONTROL 2 interface. Each device is assigned a unique address during the power on procedure of network.

For the RDNET network operating, it is necessary to install the appropriate Software on PC, on Microsoft Windows® environment.

From PC it is possible to check the operating of each single device connected to the network and edit its parameters output level, mute, equalization, delay, etc. The network and devices configuration can be saved as file in the PC and later reloaded.

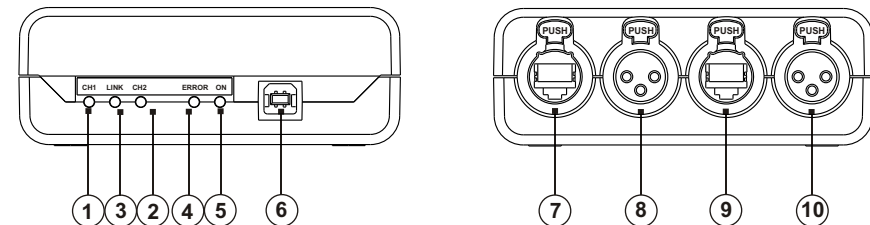
RDNET is a "real-time" system: Information relating to the functioning of the devices is acquired in real-time, a feature that allows a global view of connected devices.

For the correct working of USB (1.1 o 2.0) communication between PC and RDNET CONTROL 2 it is recommended to use the USB cable supplied.



CONTROLS AND FUNCTIONS

- 1) **"CH 1" Indicator light**
This indicator light, green LED, flashes to indicate data transmission or reception in the subnet 1.
- 2) **"CH 2" Indicator light**
This indicator light, green LED, flashes to indicate data transmission or reception in the subnet 2.
- 3) **"LINK" Indicator light**
This indicator light, green LED, will be used for future applications.
- 4) **"ERROR" Indicator light**
This indicator light, red LED, lights up to indicate errors during data transmission or reception.
- 5) **"ON" Indicator light**
This indicator light, green LED, lights up to indicate that device is on and powered by USB.
- 6) **USB Connector**
USB type B connector, for computer link, by means of cable provided.
The RDNET CONTROL 2 is powered by USB connector
- 7) **RJ45 Connector - "CH1"**
Connector for Subnet 1 RDNET connection by means of CAT5 cable. For connections refer to "CHANNEL CONNECTIONS" page 19.
If this connector is used DO NOT CONNECT the connector "CH1" XLR socket (8).
- 8) **XLR Connector - "CH1"**
Connector for Subnet 1 RDNET connection. For connections refer to "CHANNEL CONNECTIONS" page 19.
If this connector is used DO NOT CONNECT the connector "CH1" RJ45 socket (7).
- 9) **RJ45 Connector - "CH2"**
Connector for Subnet 2 RDNET connection by means of CAT5 cable. For connections refer to "CHANNEL CONNECTION" below.
If this connector is used DO NOT CONNECT the connector "CH2" XLR socket (10).
- 10) **XLR Connector - "CH2"**
Connector for Subnet 2 RDNET connection. For connections refer to "CHANNEL CONNECTION" below.
If this connector is used DO NOT CONNECT the connector "CH2" RJ45 socket (9).



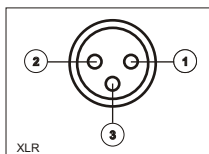
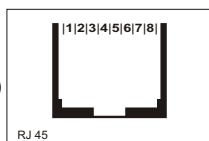
CHANNEL CONNECTION

DO NOT CONNECT BOTH RJ45 AND XLR CONNECTORS TO THE SAME RDNET PORT!

RJ 45 CONNECTOR

Pin

- 1 – available for other functions (for example: audio signal +, hot)
- 2 – available for other functions (for example: audio signal –, cold)
- 3 – available for other functions (for example: analogue ground)
- 4 – digital ground
- 5 – digital ground
- 6 – available for other functions (for example: power supply)
- 7 – RS 485 A
- 8 – RS 485 B



XLR SOCKET

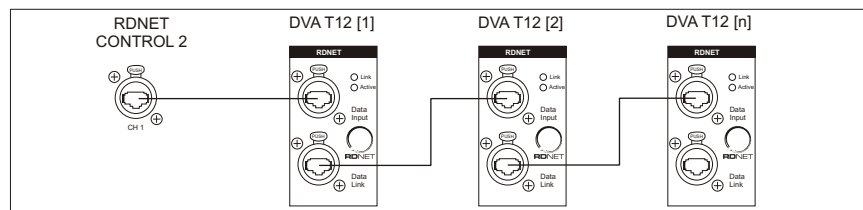
Pin

- 1 – digital ground
- 2 – RS 485 A
- 3 – RS 485 B

SUBNET CONNECTION

Each of the 2 available **RDNET** ports of the **RDNET CONTROL 2** unit can be connected to max. 32 compatible devices (linked in 'daisy-chain').

Example: the RDNET CONTROL 2 port 1 is connected to the DATA IN input of a DVA T12 loudspeaker, of which DATA LINK parallel output is linked to the input of the following DVA T12 loudspeaker.



In the example above, [n] is a number from 3 to 32 (max. quantity of devices that can be connected to a subnet).

The total CAT 5 cable length of a subnet cannot exceed 900 metres (c. 2950 feet).

NOTES ABOUT THE RDNET SOFTWARE

The RDNET software is protected by international copyright laws and is to be used to configure the dB Technologies RDNET system only.

It is not allowed to modify or change or try to decompile this software.

In no event shall dB Technologies be liable to end-users for any damage whatsoever, including but not limited to financial damages for loss of business profits or business information due to the software use or inability to use this product. The foregoing provision is effective even if dB Technologies has been advised of the possibility of such damages. Even if the software has any material, verifiable and reproducible program errors, dB Technologies shall have no obligation to modify such errors.

DVA Network

RDnet CONTROL 2 is equipped with proprietary network interface, called RDNET, for PC interface.

For this purpose, a proprietary communication protocol has been developed for receiving and sending data; this connection permits real-time monitoring of the diffuser parameters, such as output power, amplifier temperature, limiter status, etc...

It is also possible to select various equalizations or create new ones, set the desired volume levels using the specific plug-in.



It is recommended to download DVA Network free software directly from dB Technologies (www.dbtechnologies.com) in the special section «Software & Controller»

SPECIFICATIONS

Network:

- standard EIA RS-485
- up to 2 managed subnet
- max. 32 devices connected to each subnet

RDNET connections:

- 2 RJ 45 connectors (EtherCon) for CAT 5 cable
- 2 three-pole XLR socket (as alternative to RJ 45)

PC connection:

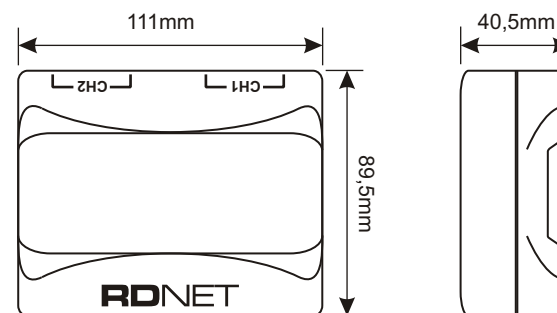
- USB (type B)

Power supply:

- powered by USB Type B socket

Mechanical characteristics:

- ABS Plastic BOX, Black color
- Dimensions (WxHxD): 111x40,5x89,5 mm
- Net weight: 175 gr



EMI CLASSIFICATION

According to the standards EN 55103 this equipment is designed and suitable to operate in E3 (or lower E2, E1) Electromagnetic environments.