

TECHNICAL SPECIFICATION

Broadcast Connection Panel (BCP)

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Contents

1. Description	3
1.1. General	3
1.2. Internal block diagram	4
1.3. Description of the inputs/outputs	4
1.4. Power management	5
1.5. Connector description	5
2. Electrical specifications	6
2.1. Electrical specifications	6
2.2. Dimensions	6

1. Description

The Broadcast connection panel (BCP) is used as a Distributor for Timing information supplied from the Central Arena Connection Box to the Broadcast area.

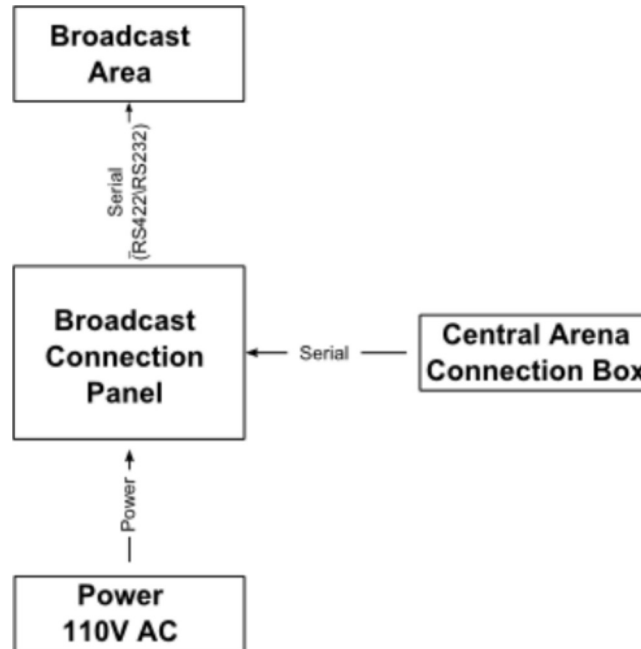


Figure 1: Bloc diagram of the BCP in the NBA timing system.

1.1. General

The Broadcast connection panel is located in the broadcast area. The system provides and distributes the timing information of the game through 5 serial connections (1 main + 4 auxillary). The transmission standard is RS422 terminated of standard RJ45 and clamp connectors. Furthermore, two RS 232 connectors are available.

1.2. Internal block diagram

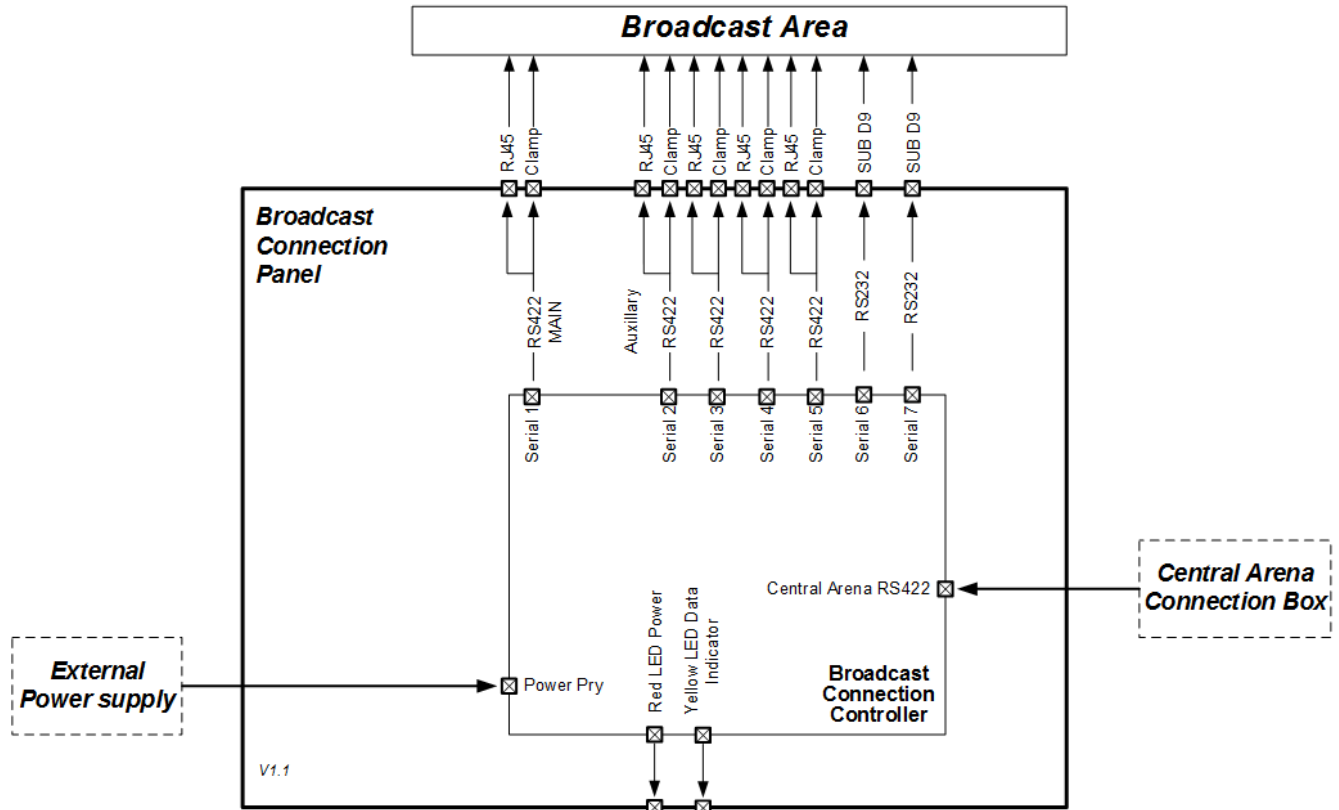


Figure 2: Internal schematic of the BCP.

1.3. Description of the inputs/outputs

Power Pry : external power supply 24V AC of the device.

Central Arena Connection Box RS422: Input connected to the CACB in order to receive all relevant timing data (TISSOT timing and scoring protocol). The link is a RS422 serial unidirectional downstream (galvanic isolated).

Serial RS 422 1- 4: Available output sockets to distribute and forward the relevant timing data from CACB to the broadcast van. The used transmission standard will be RS422. The information at all serial sockets are duplicated (identical).

Serial RS 232 0- 2: As an alternative to the RS 422 standard, these connectors can be used to distribute and forward the relevant timing data from CACB to the broadcast van in RS 232 standard.

1.4. Power management

The BCP is designed without an internal battery.

The AC/DC of the device is external. Minimal specifications of the AC/DC:

- Input voltage : 100-240 VAC
- Output voltage: non isolated
- Output voltage: See **Table 2**.

1.5. Connector description

Connector name	Connector reference	PIN ID	Signal description	Cable length max [m]	EMC test ¹
External Power Input	Binder DIN 4pMC	1	Power supply	<3m	ESD
		2	Ground reference		
		3	-		
		4	-...		
CACB RS422	fixed wired	1	Rx+		ESD
2	Rx-				
Serial 1-4 RS 422	5x RJ45	1	-		ESD
		2	-		
		3	-		
		4	Tx+		
		5	Tx-		
		6	-		
Serial 1-4 RS 422	5x 2x terminal block	1	Tx+		ESD
		2	Tx-		
Serial 0-2 RS 232	SUBD9pMT	1	-		ESD
		2	-		
		3	Tx		
		4	-		
		5	GND		
		6	-		
		7	-		
		8	-		
		9	-		

Table 1 : Connector description of the BCP

2. Electrical specifications

2.1. Electrical specifications

Conditions: T = 25°C (unless otherwise specified).

SYMB.	PARAMETERS	CONDITIONS	MIN	TYP	MAX	UNIT	REM
V _{Supply}	Input voltage Power supply			24		V	1
I _{Supply}	Input current Power supply			4		A	

Table 2: Electrical specifications of the BCP

2.2. Dimensions

SYMB.	PARAMETERS	CONDITIONS	MIN	TYP	MAX	UNIT	REM
H _{Box}	BCP height		-	44	-	mm	
W _{Box}	BCP width		-	483	-	mm	
L _{Box}	BCP length		-	157.8	-	mm	
m _{Box}	BCP weight		-	TBD	-	kg	

Table 3: Dimensions

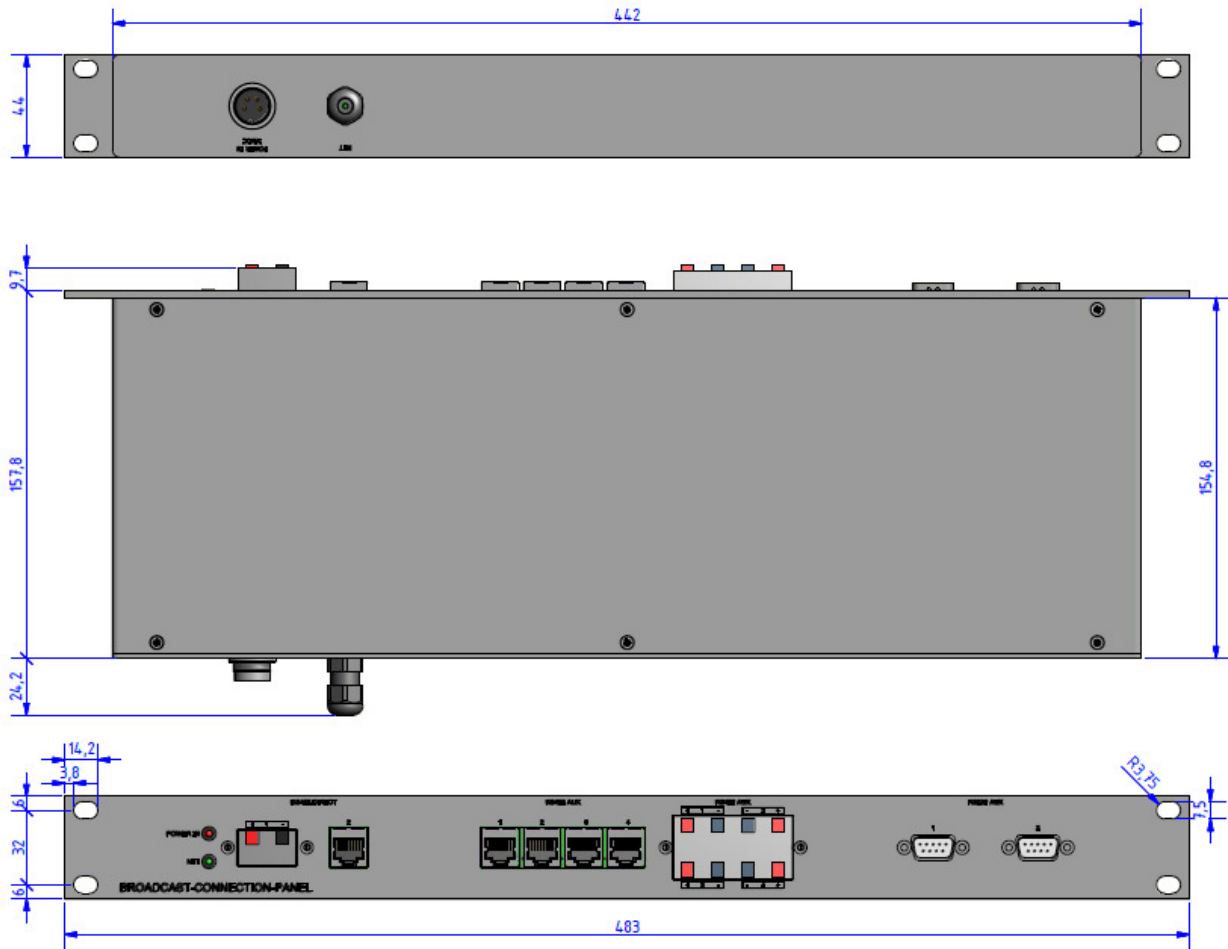


Figure 3: Dimensions of the Broadcast Connection Panel

