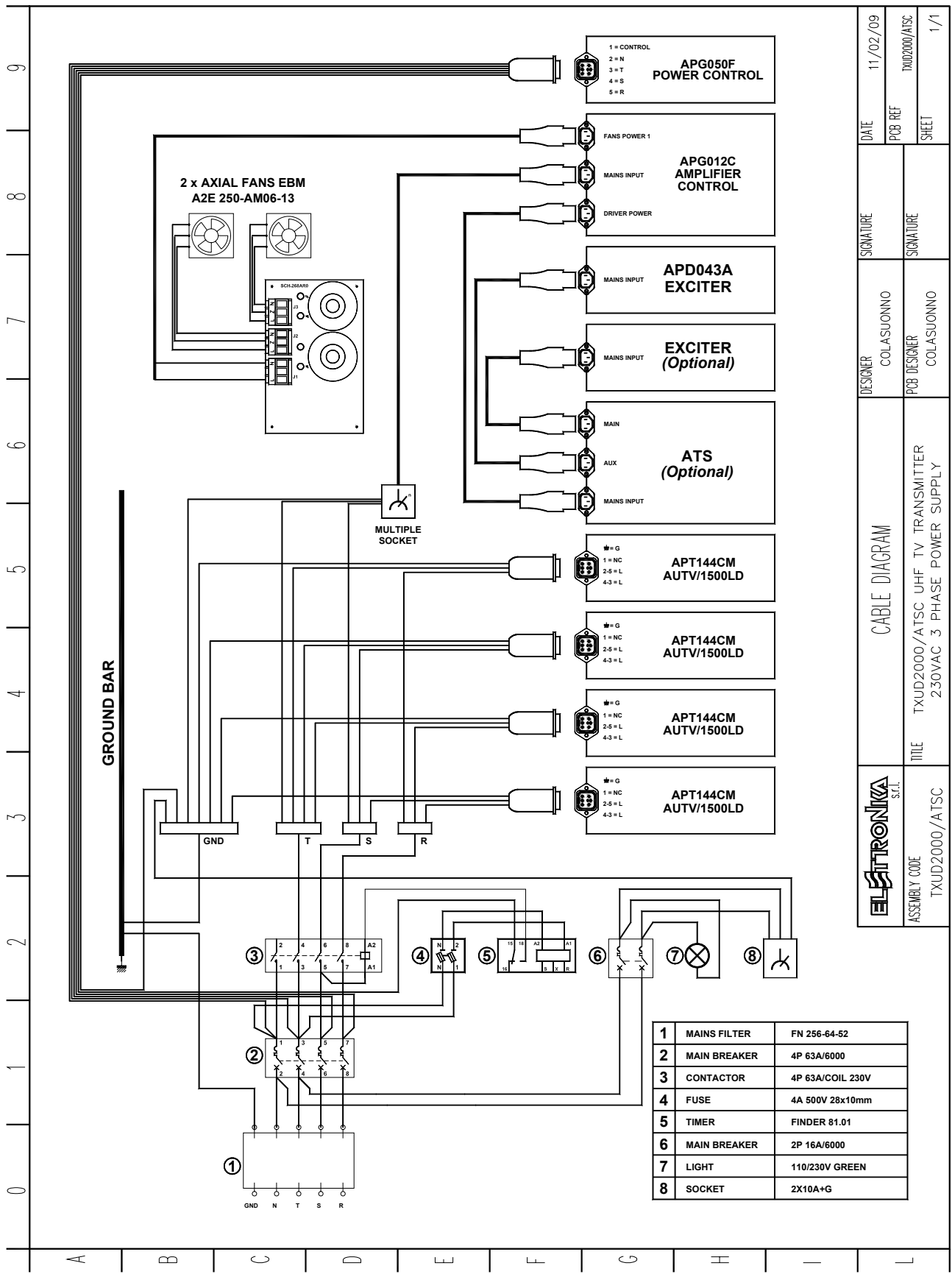
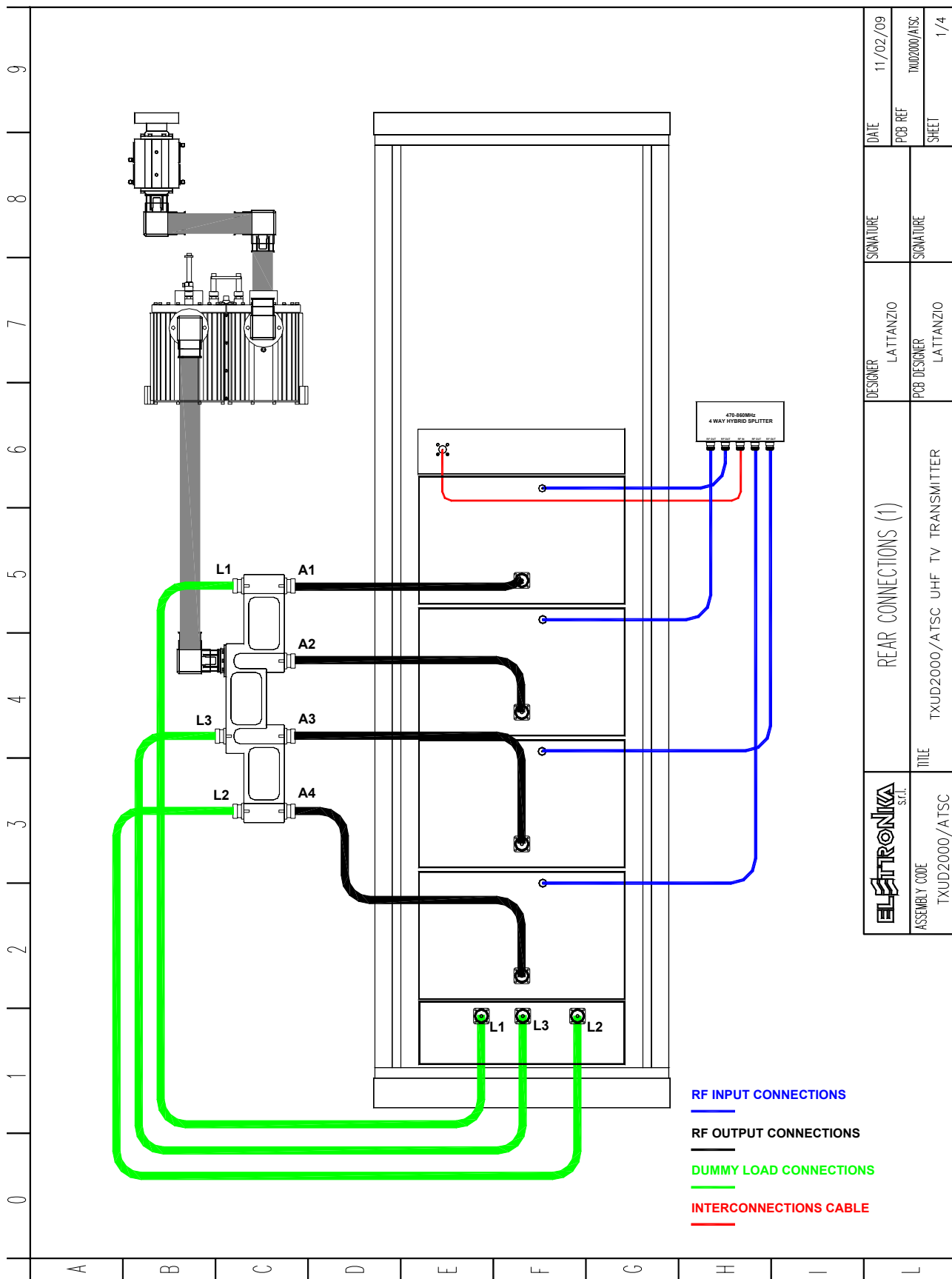
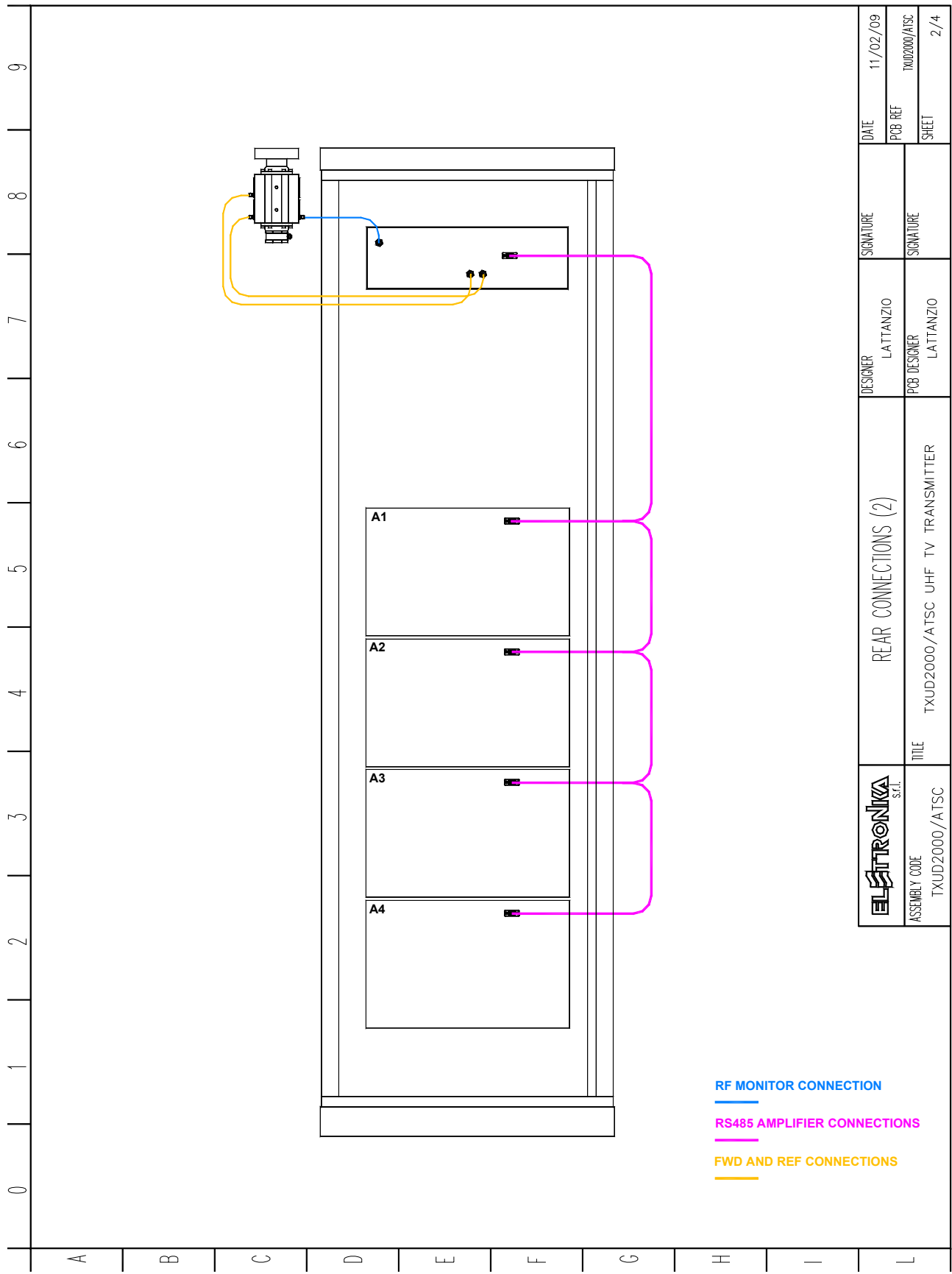


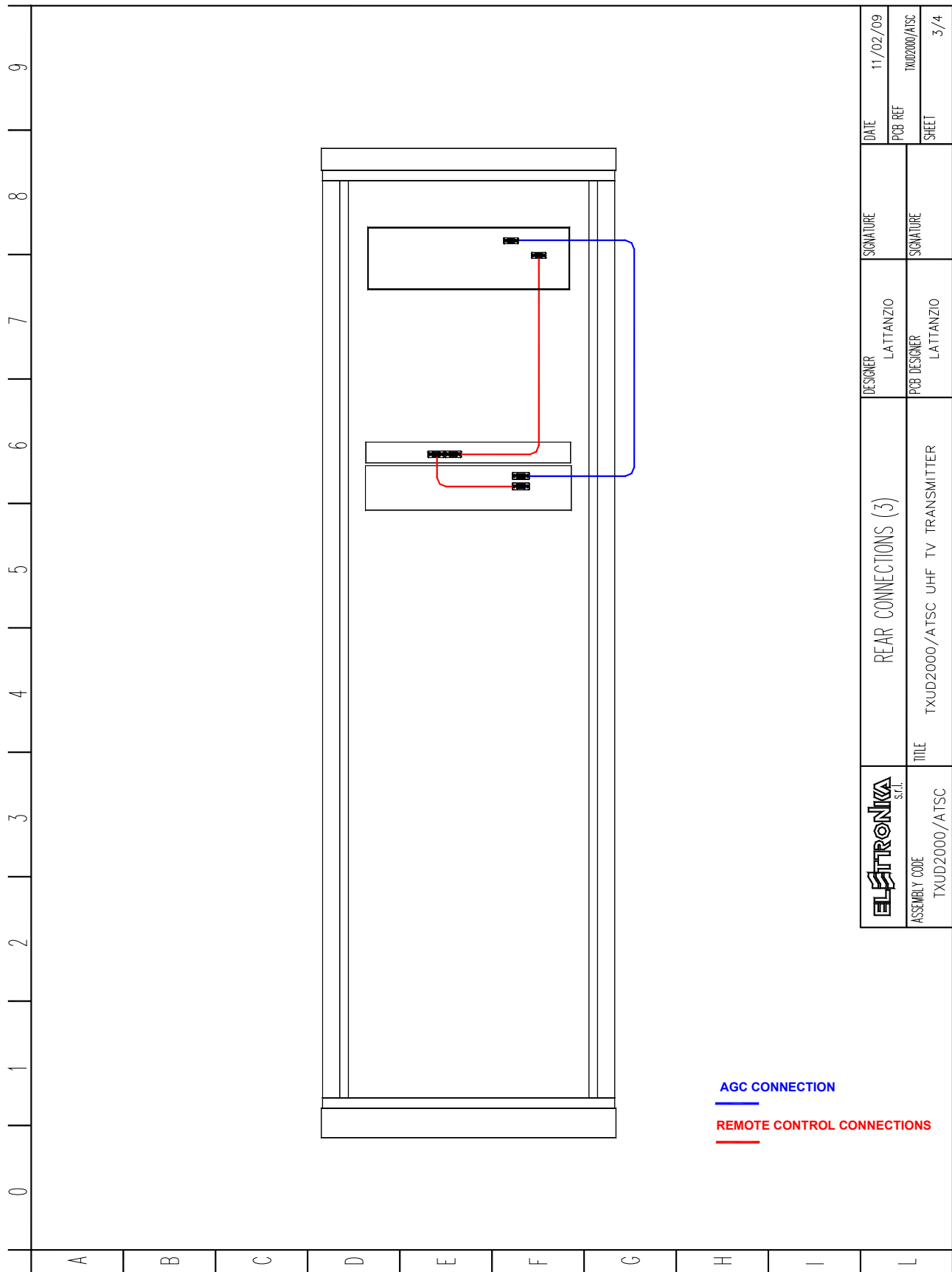


DATE	11/02/09	SIGNATURE	COLASUONNO	DESIGNER	CABLE DIAGRAM	TITLE	TXUD2000/ATSC 230VAC 3 PHASE POWER SUPPLY	ASSEMBLY CODE	TXUD2000/ATSC	SHEET	1/1
	PCB REF										
	TXUD2000/ATSC										





ELATRONIKA s.r.l. ASSEMBLY CODE TXUD2000/ATSC	REAR CONNECTIONS (2)		DESIGNER	SIGNATURE	DATE
	TITLE	TXUD2000/ATSC UHF TV TRANSMITTER	LATTANZIO		11/02/09
			PCB DESIGNER	SIGNATURE	PCB REF TXUD2000/ATSC
			LATTANZIO		SHEET 2/4

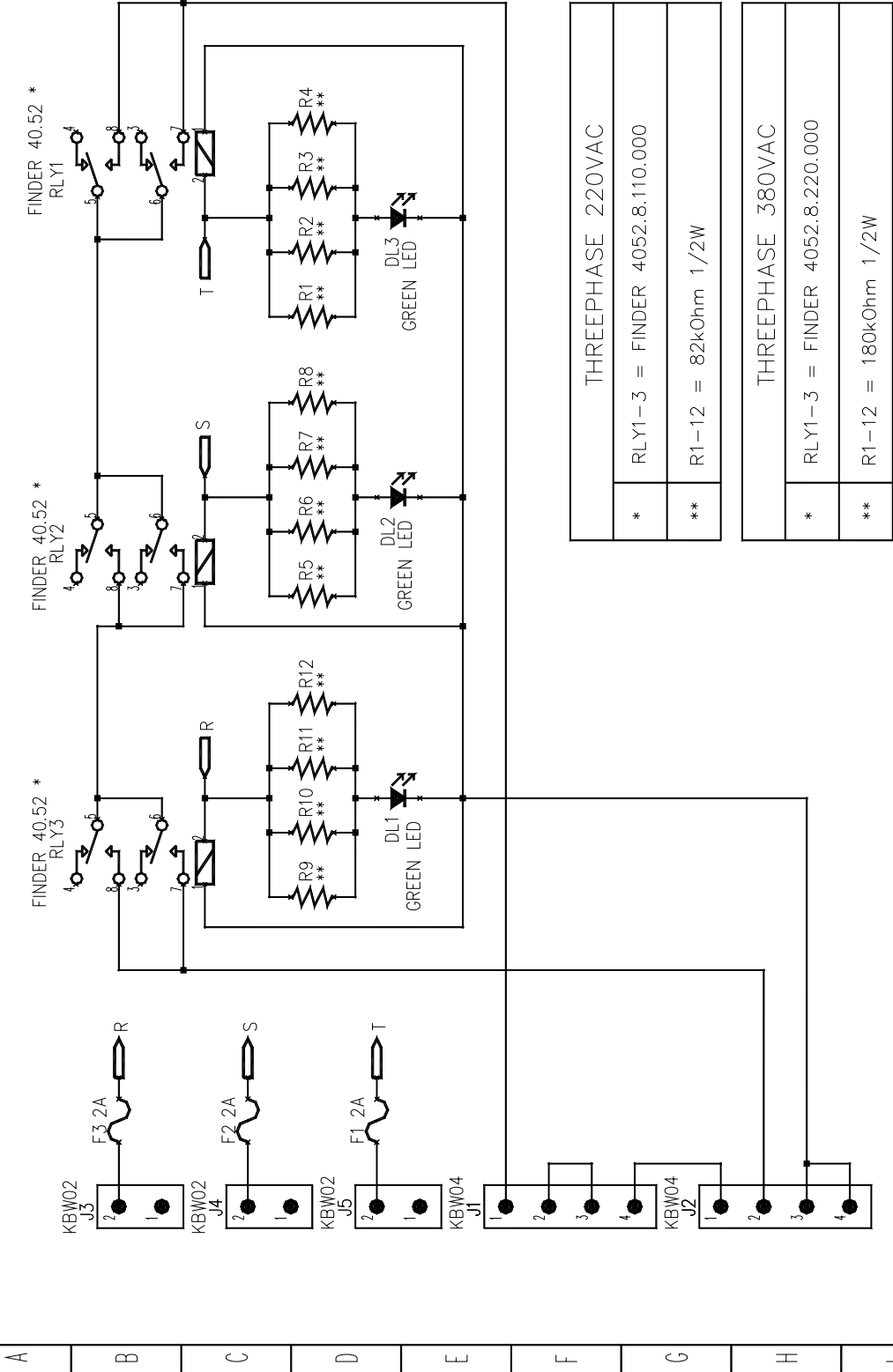


ELATRONIKA s.r.l. ASSEMBLY CODE TXUD2000/ATSC	REAR CONNECTIONS (3)		DESIGNER LATTANZIO	SIGNATURE	DATE 11/02/09
	TITLE TXUD2000/ATSC UHF TV TRANSMITTER		PCB DESIGNER LATTANZIO	SIGNATURE	PCB REF TXUD2000/ATSC
					SHEET 3/4



A vertical number line with tick marks labeled 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9.

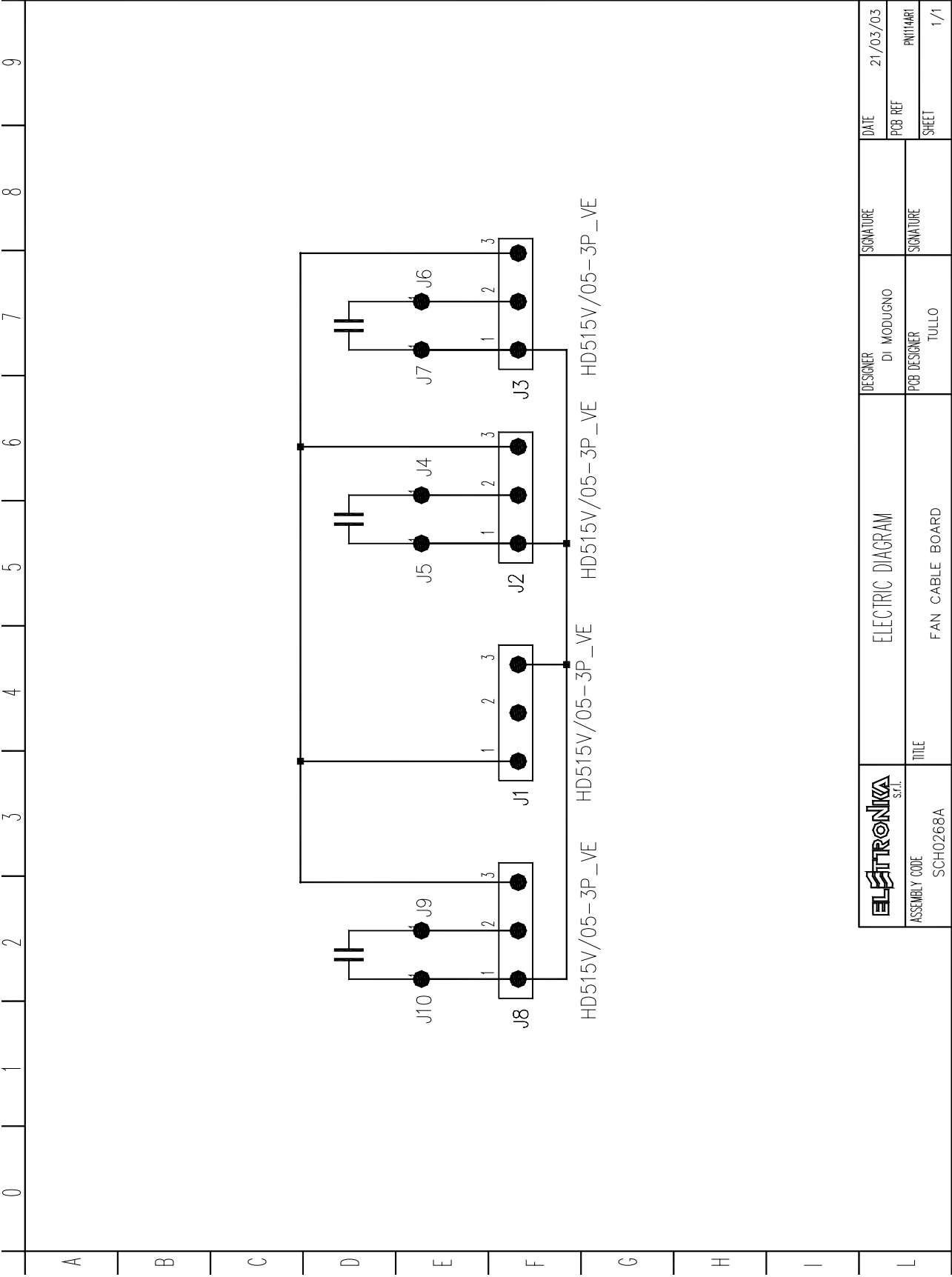
0 1 2 3 4 5 6 7 8 9



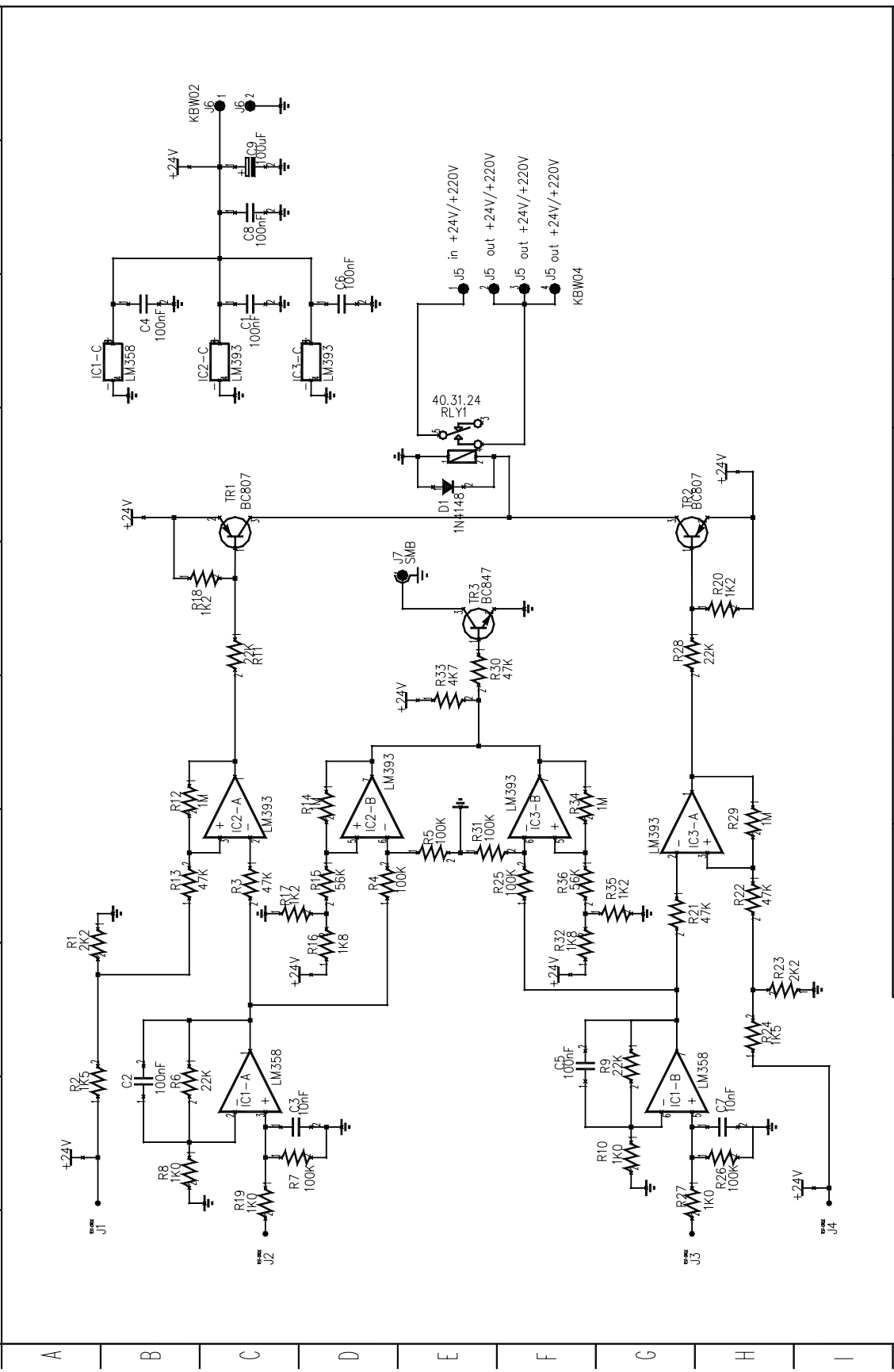
THREEPHASE 220VAC	
*	RLY1-3 = FINDER 4052.8.110.000
**	R1-12 = 82kOhm 1/2W

THREEPHASE 380VAC	
*	RLY1-3 = FINDER 4052.8.220.000
**	R1-12 = 180kOhm 1/2W

 ASSEMBLY CODE SCH0398A	ELECTRIC DIAGRAM		DESIGNER COLASUONNO	SIGNATURE	DATE 13/06/06
	MAIN CONTROL BOARD		PCB DESIGNER TULLO	SIGNATURE	PCB REF PN1266R2
					SHEET 1/1

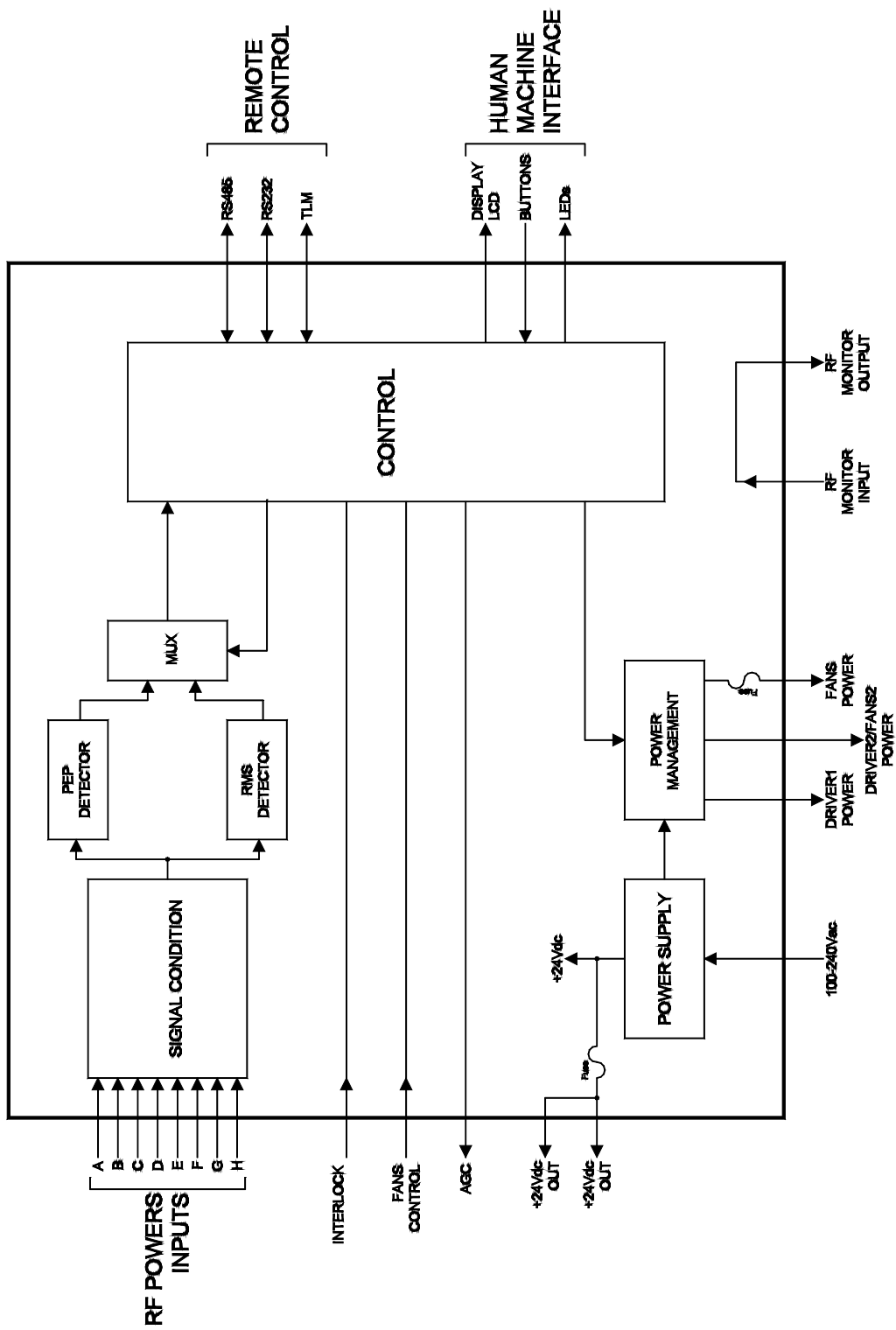


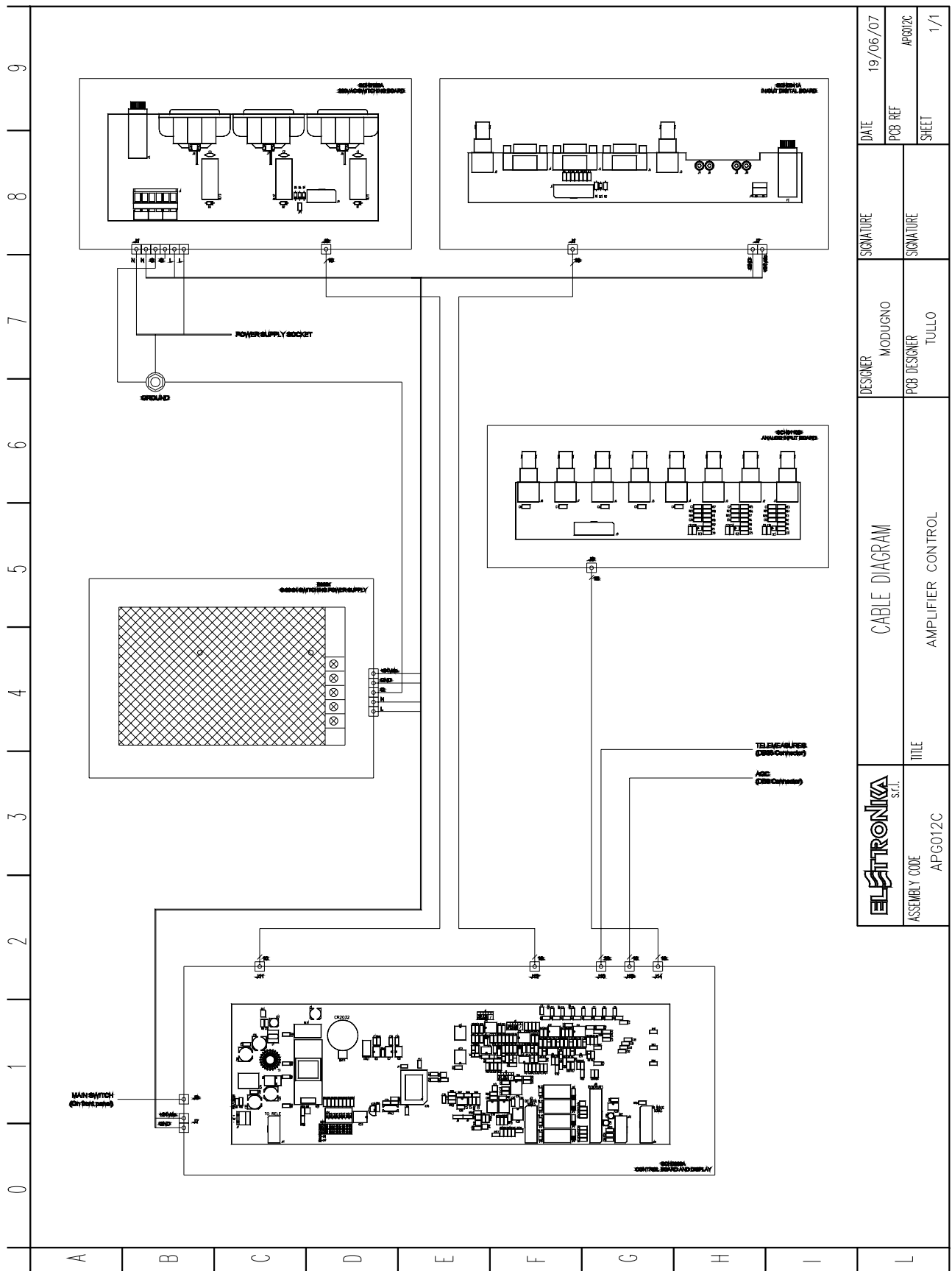
0 1 2 3 4 5 6 7 8 9



L	ELITRONIKA S.r.l.	ELECTRIC DIAGRAM	DESIGNER	SIGNATURE	DATE	
			PCB DESIGNER	SIGNATURE	PCB REF	
			TULLO	SIGNATURE	SHEET	
		ASSEMBLY CODE	TITLE	1/1		
		SCH0404A	DUMMY LOAD TEMPERATURE CONTROL BOARD	PM233AR2		

Block diagram





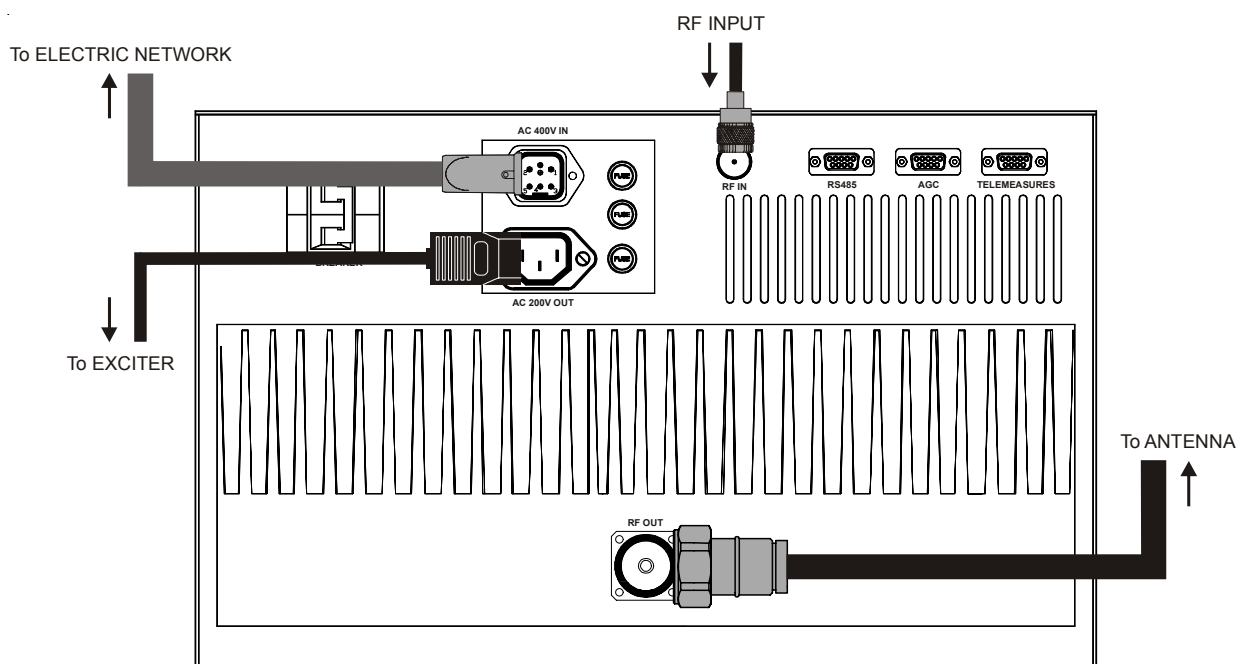
ELSTRONIKA s.r.l.	ASSEMBLY CODE APG012C	TITLE AMPLIFIER CONTROL	DESIGNER MODUGNO	SIGNATURE	DATE 19/06/07
					PCB REF APG012C
					SHEET 1/1

2.1 OPERATING ENVIRONMENT

You can install the equipment in a standard component rack or on a suitable surface such as a bench or desk. In any case, the area should be as clean and well-ventilated as possible. Do not locate the equipment directly above a hot piece of device. The upper lid can be dismounted to allow an easy internal access. The equipment is designed with a modular design, that is each circuit is realized inside different modules or boards. All interconnections between modules are made by means of connectable cables which allow an easy and quick maintenance of damaged modules.

2.2 FIRST INSTALLATION

Correct installation of the equipment is important for maximum performance and reliability. Antenna and earth connections must be installed with the greatest care. The equipment adjustment isn't need, because the unit is completely adjusted by our technical staff.



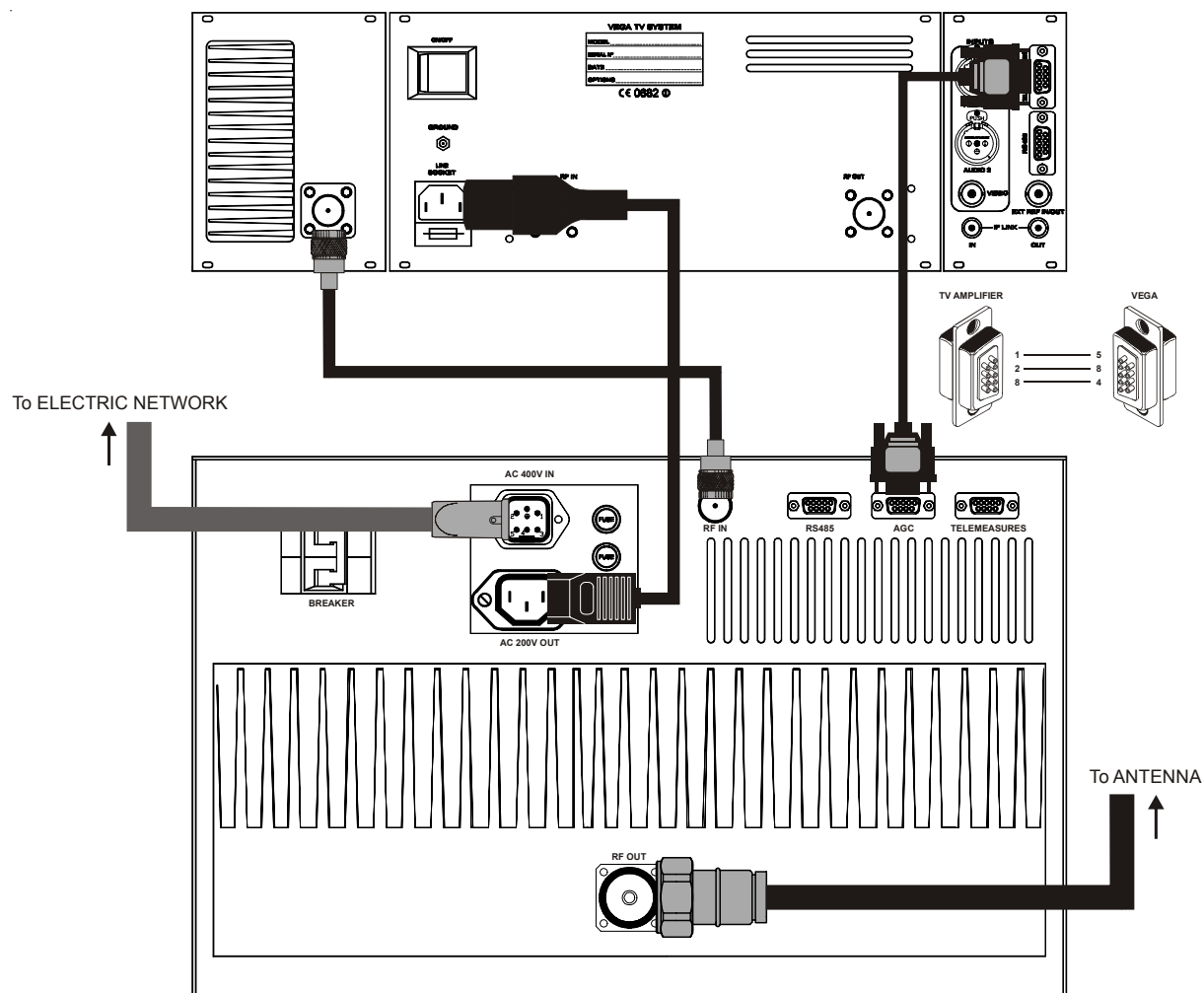
1. Connect Power Supply cable of the Exciter to the Auxiliary Socket on the rear panel of the Amplifier;
2. connect the Power Supply cable of the Amplifier to the electric network (230VAC Monophase or 400VAC Threephase); if present the Isolator Transformer, the Amplifier is provided with cable and plug;
3. connect the RF OUT Exciter cable to the RF IN connector on the rear panel of the Amplifier;
4. connect the Antenna cable to the RF OUT connector on the rear panel of the Amplifier.

When the equipment is put within a combined system it is directly connected to the input splitting and output combining systems.

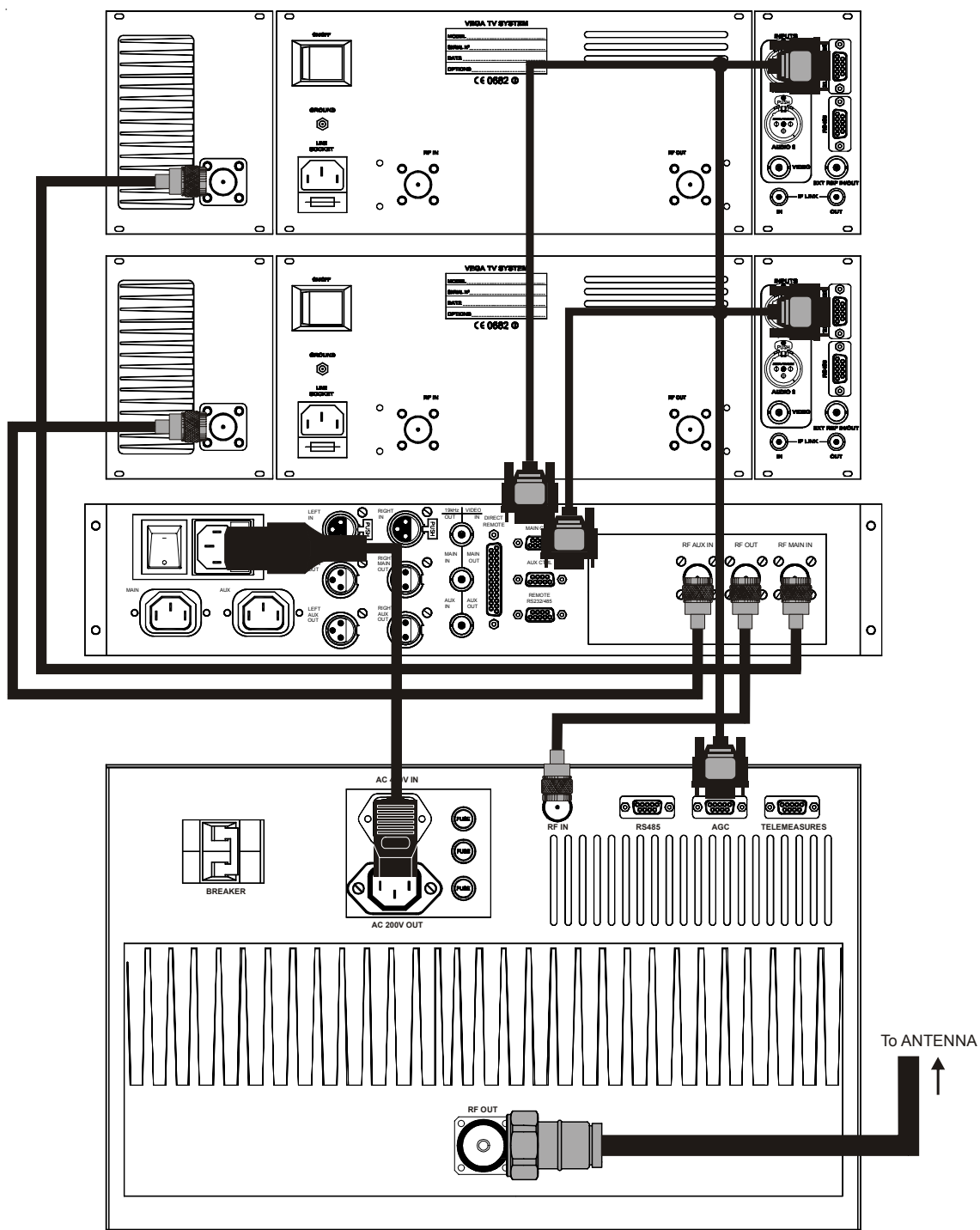
Before fully powering the equipment, check that the output connections of the coaxial cable to the antenna system are working.

In order to this it is possible to check the indication of the Reflected Power at low power levels. Only if the SWR indication on the display is 0, the output power can be slowly increased. At maximum output power, some watts might be shown as Reflected Power.

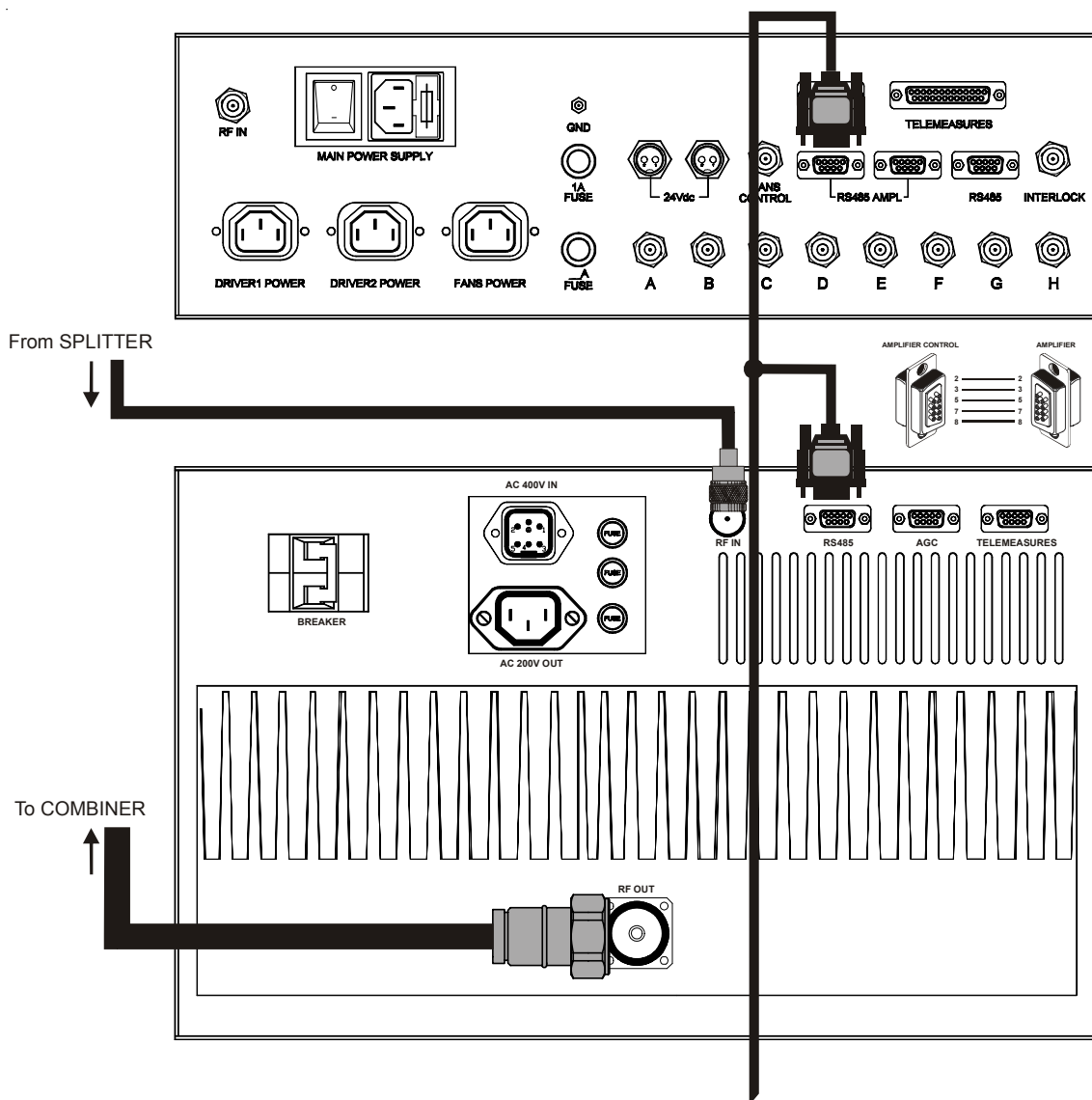
2.3 CONNECTION WITH VEGA TV TRANSMITTER

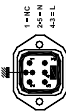


2.4 STAND-ALONE AMPLIFIER CONFIGURATION IN DUAL DRIVE VERSION



2.5 SLAVE MULTI-AMPLIFIER CONFIGURATION WITH AMPLIFIER CONTROL





ELSTRONIKA
s.r.l.

DESCRIPTION

The Control Board SCH0223A manages the operational logic of the amplifier: switching on and off, power supply and fans, alarms and protections, remote control, human-machine interface. All of that is performed by a modern and powerful 16 bit micro-controller, which is the main part of the board.

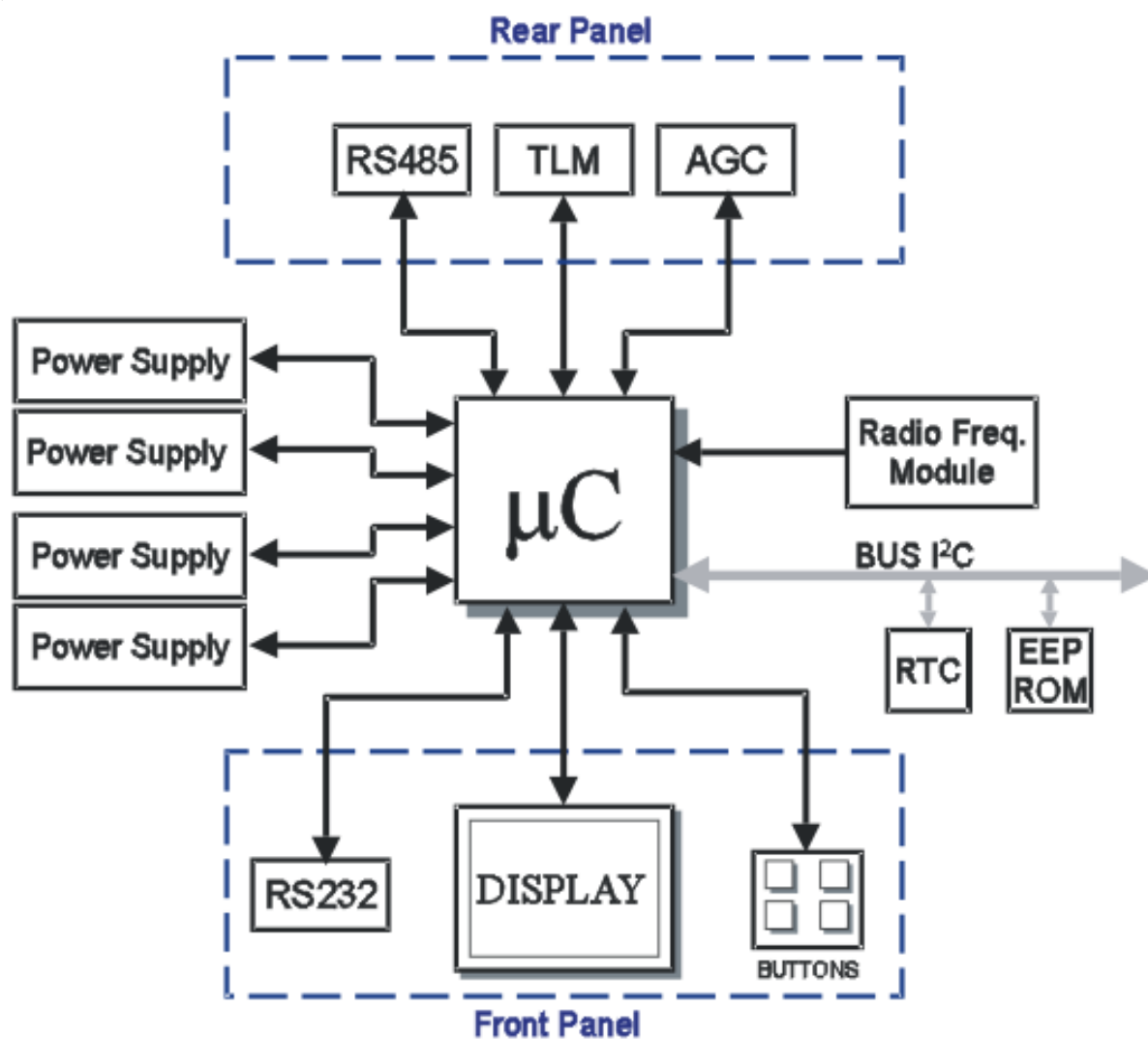
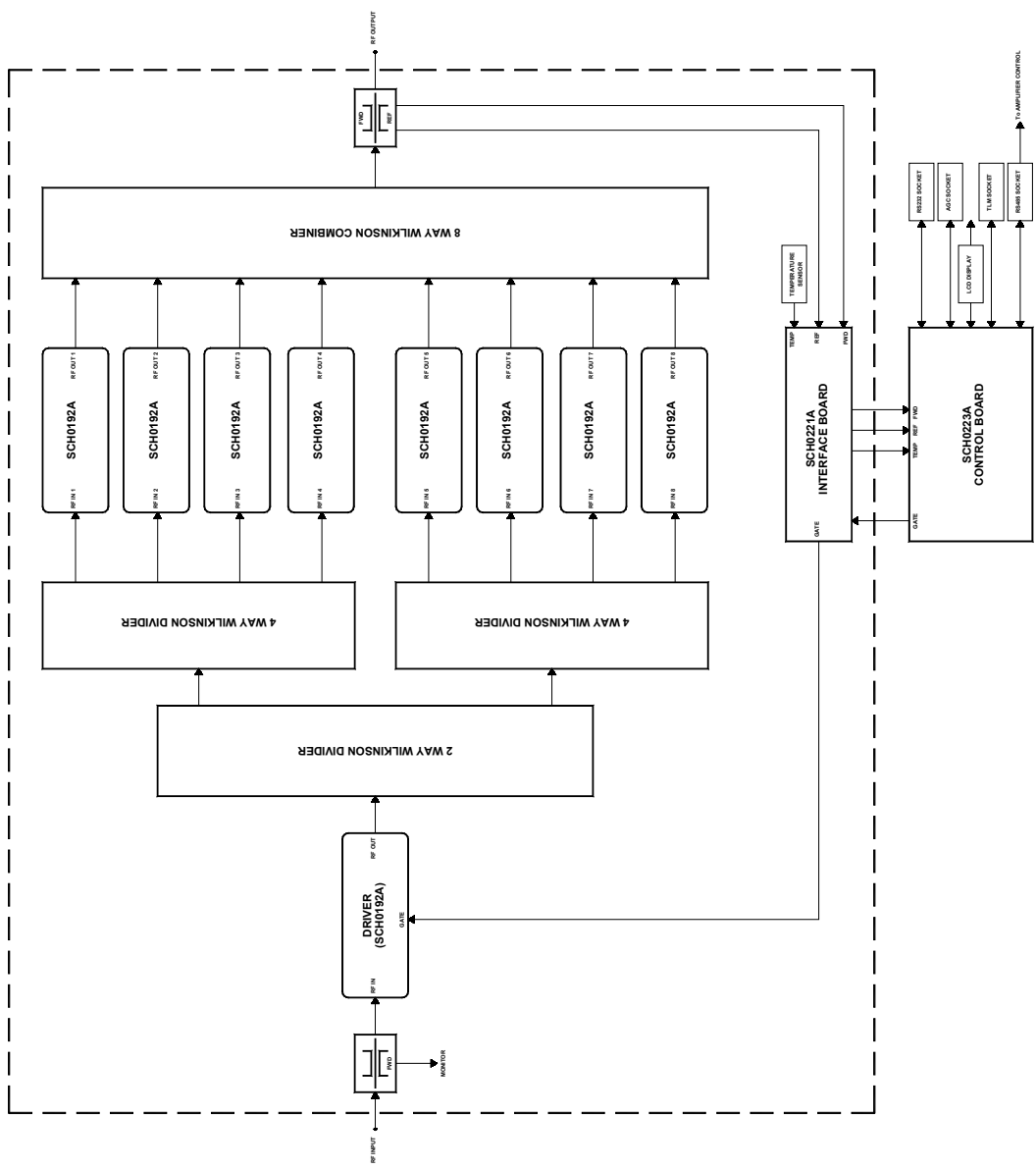
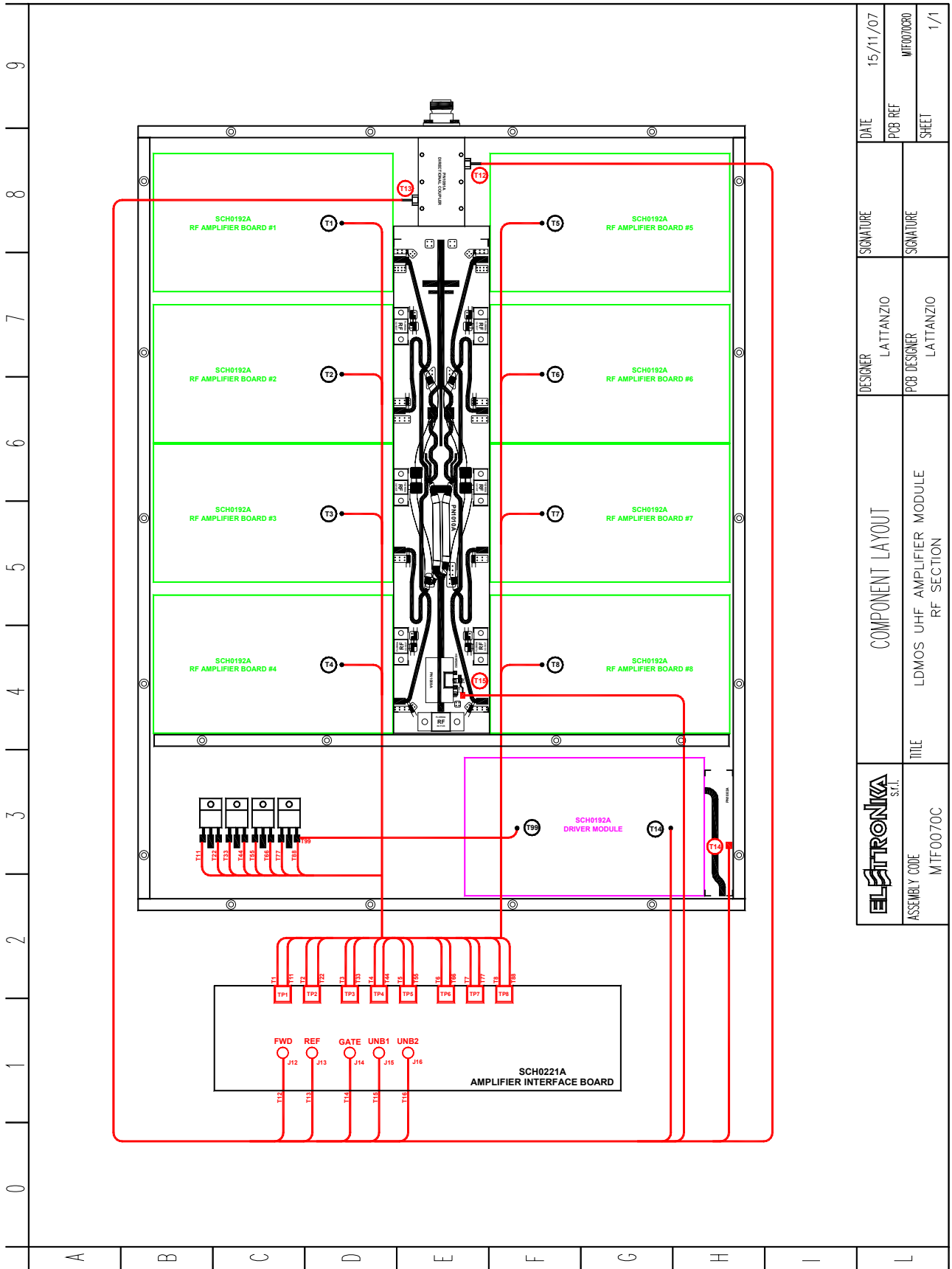


Figure 1: Simplified block diagram of the control and display board

0 1 2 3 4 5 6 7 8 9



	BLOCK DIAGRAM		DESIGNER	SIGNATURE	DATE
	TITLE		PCB DESIGNER	SIGNATURE	PCB REF
	ASSEMBLY CODE		SHEET		
MTF0070C	LDMOS UHF AMPLIFIER MODULE	LATTANZIO			15/11/07
MTF0070C0					
					1/1



ELATRONIKA s.r.l.	COMPONENT LAYOUT	DESIGNER	SIGNATURE	DATE	15/11/07
		LATTANZIO	SIGNATURE	PCB REF	MTF0070C90
		PCB DESIGNER	SIGNATURE	SHEET	1/1
ASSEMBLY CODE	TITLE	LDMOS UHF AMPLIFIER MODULE RF SECTION			
MTF0070C					