Cable reduction MINT

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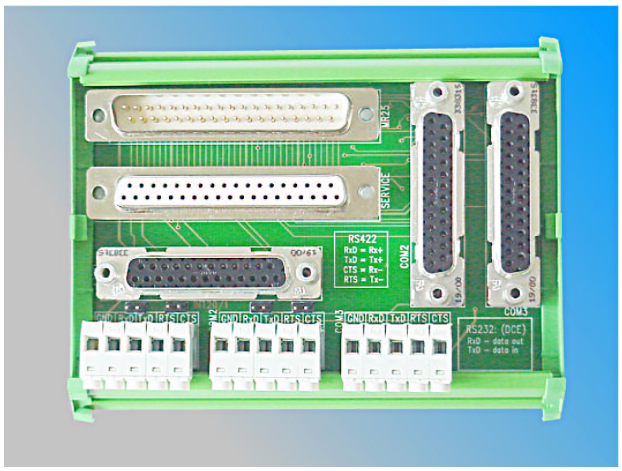
1. MINT

Data Interface designed for installation on *TS35* or *TS35* mounting plate in switchboards.

1.1. Description

MINT is used for connecting COM ports from radio modem MR25 in board. MINT board is linked with MR25 by *DKR10* cable (*DSUB37M* ⟷ *DSUB37F*).



This connectors are normally assembled on PCB board:

1. *DSUB37M* – complete interface of MR25, radio modem output
2. *DSUB37F* – connector for connect of service device

   Connectors *DSUB37* are connected in parallel.

3. *CUM*/*CUF* (removable screw connectors) – connectors are assembled in groups by five for each port (`RxD, TxD, RTS, CTS, GND` signals are available)

   Connectors *CUM*/*CUF* are assembled completely. One part to PC board – *CUM* and removable part with screw terminal plate *CUF*.

MINT interface is produced in two versions:

- *MINT* – serial ports are linked to *CUM*/*CUF* connectors.
- *MINT/S* – PC board is assembled in addition with each serial port with *DSUB25F* connector (see picture above). Linking of signals on this connectors is by V.24 standard (RS232).

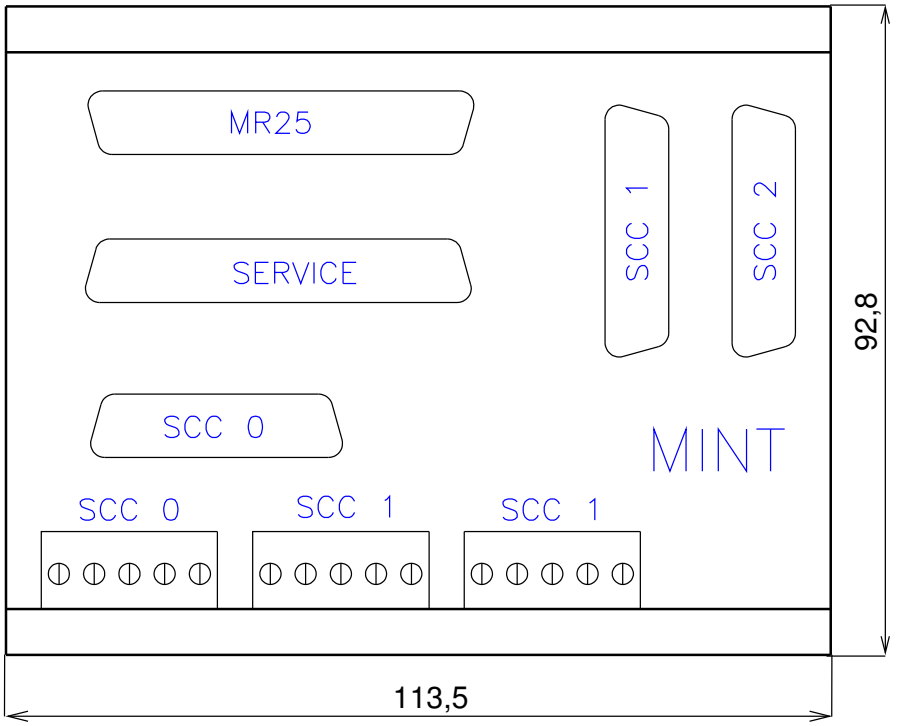
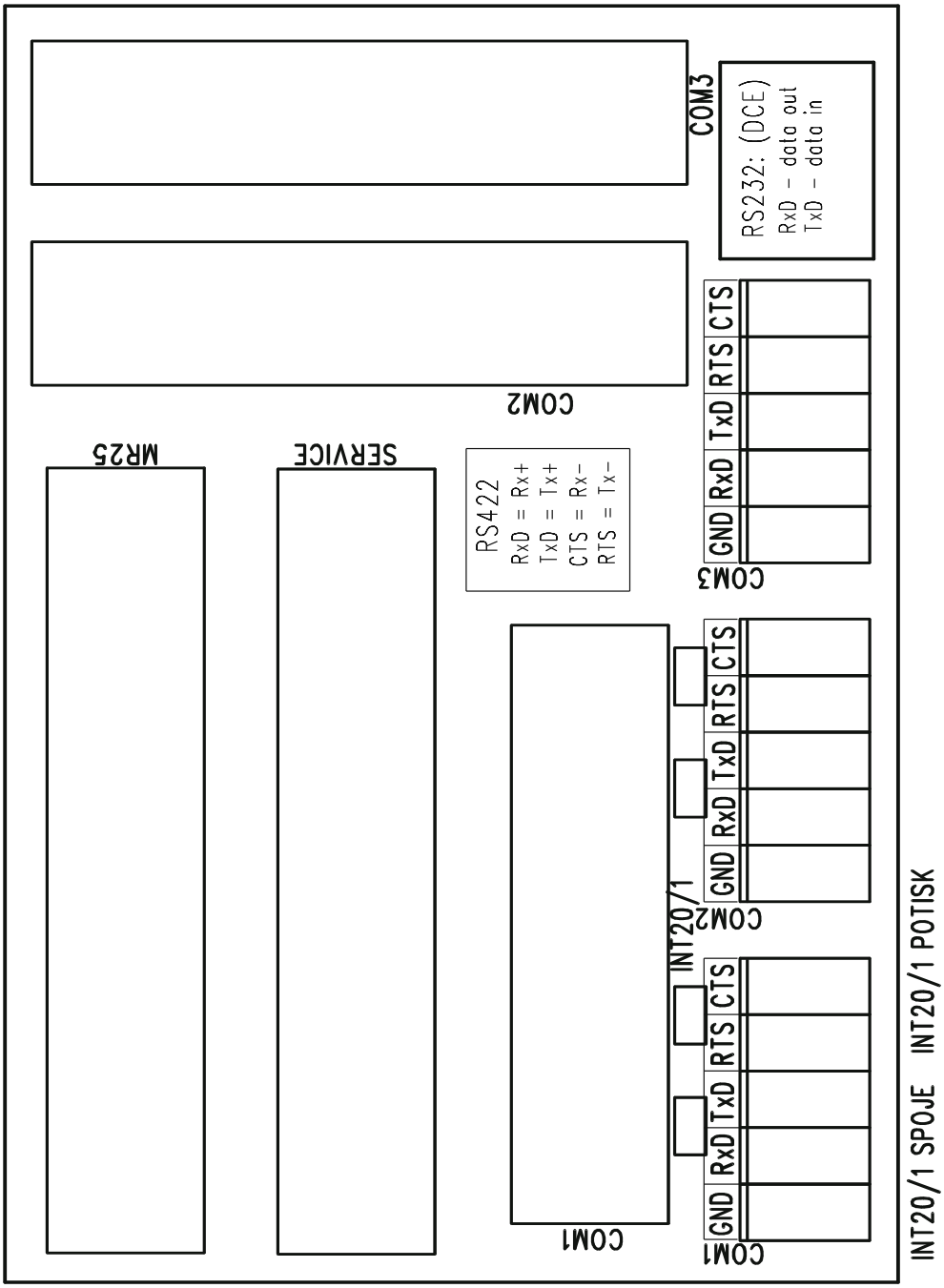
It is possible to create connections necessary for the RS485 interface using jumpers on the *CUM / CUF* connectors. Jumper between RxD and TxD can create loopback out of MR25 radio modem (e. g. for testing of converters of each COM port).

There are signals which appropriate to hardware version of MR25 – see *MR25 radio modem manual*.

Description of pins on *DSUB25F* by V.24 standard:

pin	signal	pin	signal	pin	signal	pin	signal
2	TxD/Tx+	6	DSR	17	RxC	25	TI
3	RxD/Rx+	7	GND	18	LAL		
4	RTS/Tx-	8	CD	20	DTR		
5	CTS/Rx-	15	TxC	21	RDL		

1.2. Mechanical parameters



1.3. Assembly plan of PC board