

TC TETRA DATAMODEM

Datamodem for data and control applications

The data modem from TC Connect is specially designed for data and control applications. Typical applications are message handling, alarms, monitoring, control and data transmission in the TETRA network. The data modem works great as a standalone or as a modem connected directly to the serial port. The datamodem is based on Airbus TW1m-card.

Specifications

The modem meets the following specifications for TETRA radio equipment in the temperature range -20 ° C to 55 ° C:

- EN 300 392 V+D Air Interface
- EN 300 394 V+D Conformance testing
- TETRA Speech codec (ACELP) according to EN 300 395
- EN 300 396 TETRA DMO

Power class

EN300392-2-adapted Power class 3 L(3W)
Recipient class A and B

Dimensions

Weight: 350 g
Size: 140 x 105 x 32 mm

Frequencies

380 - 430 MHz

Indicators

- Green LED (programmable function, standard is power on)
- Yellow LED (programmable function, standard is connected to network)

Interface

- DB9 RS232 Serial interface for communication with CPU or modem
- RJ11 600 ohm audio interface
- DB26 I / O connector with 4 digital inputs, 4 analog inputs and 4 digital outputs
- Power supply 12V max 3A. Normal consumption in standby mode approx. 200mA.
- SMA antenna connector for TETRA

Options

- SMA antenna connector for GPS
- DIN bracket for mounting on DIN rail



Contact specification

Power supply: 2-pol Molex

Pin	Feature
1	GND
2	Supply voltage

I/O connectors: 26-pol HD Dsub F

Pin	Feature
1	GND
2	Digital input 1 (0-24V, >1V = Till)
3	Digital input 2 (0-24V, >1V = Till)
4	Digital input 3 (0-24V, >1V = Till)
5	Digital input 4 (0-24V, >1V = Till)
6	Speaker (-)
7	Speaker (+)
8	Microphone (-)
9	Microphone (+)
10	GND
11	Analog input 1 (0-24V)
12	Analog input 2 (0-24V)
13	Analog input 3 (0-24V)
14	Analog input 4 (0-24V)
15	Reserved
16	Reserved
17	Reserved
18	Reserved
19	+12V out
20	Digital output 1 (open collector max 500mA, 1.2KOhm to pin 19)
21	Digital output 2 (open collector max 40V, max 500mA)
22	Digital output 3 (open collector, max 40V, max 500mA)
23	Digital output 4 (open collector max 40V, max 500mA)
24	Reserved
25	Reserved
26	Reserved

Audio: 4-pol RJ11

Pin	Feature
1	Audio in (+)
2	Audio in (-)
3	Audio ut (+)
4	Audio ut (-)

Data: 9-pol Dsub M

Pin	Feature
1	-
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	-

Antenna connector

SMA F (TETRA)



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