

## Datasheet: com.tom RADIO 8.2

The com.tom RADIO 8.2 is a telecontrol device with an integrated PLC functionality. The device offers several communication interfaces like a GSM/GPRS-Modem, Ethernet and a Serial port. Furthermore four digital inputs and four digital outputs are present. With the CAN-Interface a flexible configuration with I/O's is given. The CODESYS SP@CHIP runtime kernel is installed as well the WEB-PORTAL communication software via GPRS.



### Technical data

IPC@CHIP® Add-On	SC143-LF-IEC Embedded Controller GM01 modem - Quad Band GSM (850/900/1800/1900 MHz) (SIM-card is inserted at the back)
Ethernet interface	1 x 10/100BaseT, RJ45 connector with traffic and link LED
Serial interface	1x RS232, RS485 or RS422 (selectable) with (one) DSUB9 connector
CAN interface	1x CAN with DSUB9 connector
Digital Inputs	4 x sink, 24 V DC typ 5 mA nominal value for TRUE: 15 V DC min nominal value for FALSE: 5 V DC max no potential isolation
Digital Outputs	4 x Transistor (high-side) 24 V DC, max 500 mA short-circuit and overload resistant, no potential isolation, mating connector Weidmüller BL 3.50/10 included in the delivery scope
SD Card interface	MMC/SD memory card

Supply voltage	24 VDC (-15% / +15%), Mating connector Weidmüller BL 3.50/03 included in the delivery scope
Active current	max. 200mA (at 24VDC) + current digital outputs
Antenna / Antenna Interface	SMA Female socket

### Software engineering

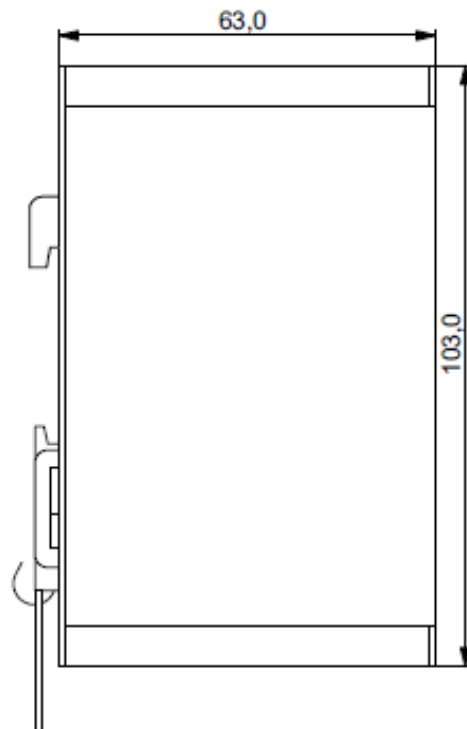
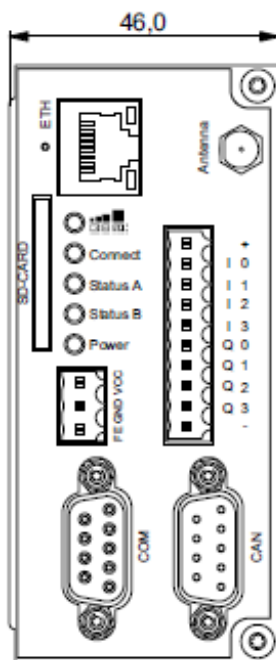
Operating System	IPC@CHIP® RTOS
PLC - Runtime	CODESYS SP@CHIP - CODESYS PLC runtime kernel
Application software	Freely programmable in IEC 61131-3 with CODESYS V2.3 Programming System
WEB-PORTAL communication	Predefined and installed Dedicated quantity of variables
WEB-PLC – Additional functions	<p>Event Log – System events are logged with timestamp and message</p> <p>Simple Network Time Protocol Synchronization of the system clock</p> <p>OpenVPN – To integrate your com.tom device into a virtual private network</p> <p>Activation over com.tom PORTAL</p> <p>Modbus – RTU and TCP, up to 8 devices and 64 values</p> <p>DHCP Server – Up to 100 clients, up to 10 static leases</p> <p>NAT – To route traffic between a local (internal) and a global (external) network</p> <p>Update – Over com.tom PORTAL or local WEB page</p> <p>CODESYS IO configuration export Import into your CoDeSys project to the global variable list.</p> <p>IEC 60870-5-104 Server – as an option available.</p>

### Environmental

Operating temperature (TA)	0°C to +55°C (-20°C to 60°C upon request)
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### Mechanical data

Size (W x L x H)	46 x 106 x 63 mm
Material	Continuously hot-dip aluminium-zinc coated steel sheet (DIN EN 10215)
Mounting	DIN rail mounting



### Modem Certifications and Compliance

FCC Rules Parts: 15B, 22H, 24E	FCC ID: RI7T56HQ1
EN301 489-1 & 7	GCF 3.27.1
NAPRD 3.14.0	R&TTE - LVD 2006/95/EC

**Compliance and Conformity**

CE, R&amp;TTE, RoHS/WEEE

- EMC emission	IEC 61000-6-4
- EMC immunity	IEC 61000-6-2
- Protection Rating	IEC 60529: IP20
- Electrical Shock	IEC 61140: Class III
- Low Voltage Directive	IEC 60950-1
- R&TTE Directive	EN 301 489-1/-7, EN 301 511

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**Ordering information**

Order-No. com.tom RADIO 8.2: 570779

Accessory IEC 60870-5-104 Server: 570796

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