Datasheet: com.tom RADIO-UMTS 7.1

The com.tom RADIO-UMTS 7.1 is a ready-to-use device to develop an application specific solution with short development lead times. The device offers several communication interfaces like a 3.5G Modem, Ethernet and a Serial port. With the preinstalled WEB-PLC editor and the included WEB-PORTAL communication via 3.5G Modem a turnkey solution for telecontrol is given.
The WEB-PLC enables with the AND, OR, XOR, FF, TIMER and COUNTER functions an operating sequence.

Technical data	
IPC@CHIP®	SC143-LF Embedded Controller
Add-On	GM02 modem:
	- Quad Band GPRS (850/900/1800/1900 MHz)
	- Tri Band UMTS modem (850/1900/2100 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
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)
Antenna / Antenna Interface	SMA Female socket

Software engineering	
Operating System	IPC@CHIP® RTOS
WEB-PLC - Editor and Runtime	Web based Editor, installed on the internal WEB-SERVER
	PLC function units: - Binary – AND, OR, XOR - Bits and bytes – Extract, Pack, Put Pit, Unpack - Messages – Send, Receive - Numerical – Counter, Compare - Special – Enable/disable, OpenVPN - Storage and edge detection – RS Flipflop, Trigger - Timing – TON, TOFF, TP, Timer
	IPO cycle time: 25 ms
	Up to 128 units, I/Os, portal variable I/Os and constants
	16 com.tom PORTAL variables
	Up to 786 I/Os
WEB-PLC – Additional functions	Event Log - System events are logged with timestamp and message
	Simple Network Time Protocol Synchronization of the system clock
	OpenVPN - To integrate your com.tom device into a virtual private network (activation through com.tom PORTAL
	COM Server - According to RFC 2217
	DHCP Server - Up to 100 clients, up to 10 static leases
	NAT - To route traffic between a local (internal) and a global (external) network, up to 500 mappings, up to 10 static mappings
	Firewall – Filters incoming traffic, up to 500 rules (incl. dynamic rules for outgoing traffic)
	Messages - Sending and receiving short messages, up to 10 templates receiving and sending respectively
	Update - Over com.tom PORTAL, local WEB page or SD card
	CODESYS network variables – Up to 32 lists and 256 values
	Export – Export the diagram and/or the settings of your com.tom device as an update package

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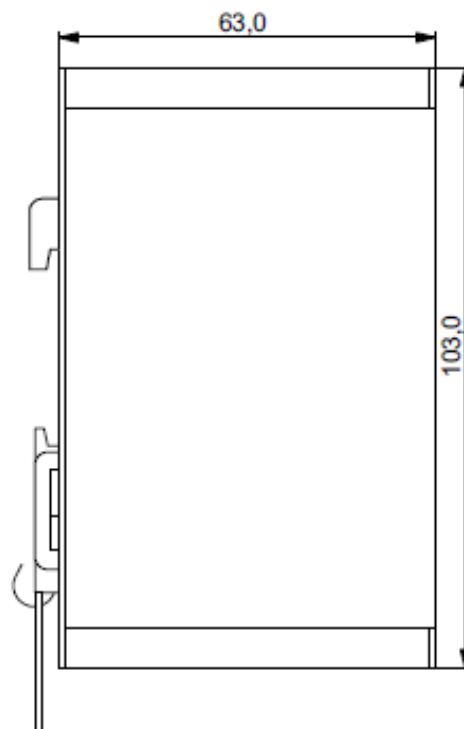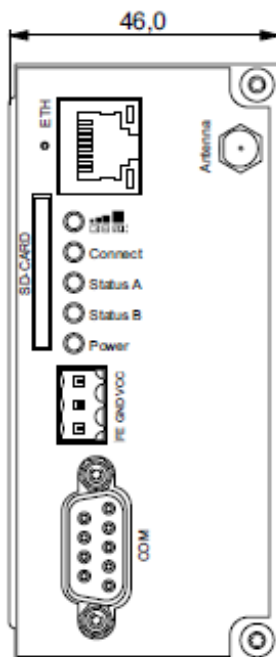|	
	IEC 60870-5-104 Server (optional) – Up to 512 values
	Modbus - RTU master and TCP client, up to 32 devices and 128 values
com.tom PORTAL communication	Predefined and installed: - device information - 8 alarms - update - Open VPN activation and status - 16 com.tom PORTAL variables - WEB-PLC I/Os - Modbus I/Os - IEC 60870-5-104 server I/Os - CODESYS network variable I/Os

Environmental	
Operating temperature (TA)	0ºC to +55ºC (-20°C to 60°C upon request)

Mechanical data	
Size (W x L x H)	46 x 103 x 63 mm
Material	Continuously hot-dip aluminium-zinc coated steel sheet (DIN EN 10215).
Mounting	DIN rail mounting

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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&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

Ordering information

Order-No. com.tom RADIO-UMTS 7.1:	570829

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