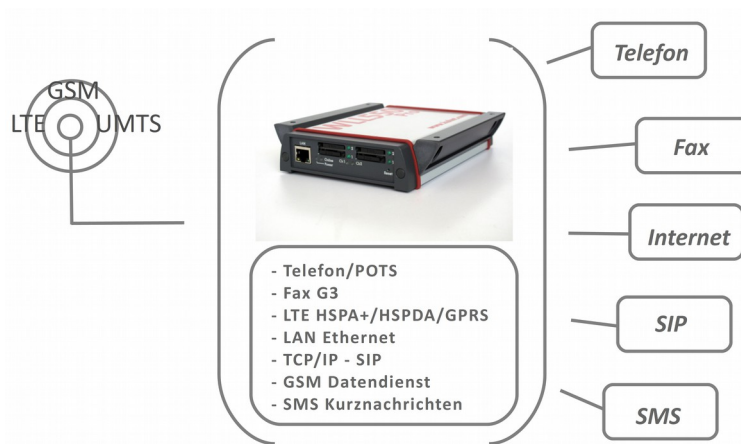# *WLL 550 Pro*
GSM/UMTS/LTE ♦ GSM-Gateway +Internet modem +SIP-Server

The WLL 550 Pro (wireless local loop) interface connects analogue and digital telephone devices with the GSM/UMTS/LTE mobile phone network. It works as well for telephones, G3 fax machines and radio-over-LAN adapters as for PABX as a local loop replacement. Additionally it provides a broadband internet access via LTE, HSPA+, HSDPA, EDGE or GPRS with up to 100 Mbit/s data transfer speed. Fully equipped phone, fax and internet services are provided at the same time.

Recommended for use as a 'Mobile Office ' or a 'Mobil Cabin' solution in:

- emergency communication units of police, fire brigades and medical services
- construction management boxes
- maritime SAR service vessels
- mobile office vans
- cargo-ships
- river boats
- backup systems
etc.

Further extended features and options like the SIM switch, the TELNET mode and the short message-API are further capabilities to fulfil the customers needs.

Functional overview:

Interfaces

- Two mobile phone radio modules
- Integrated antenna combiner
- LTE antenna diversity
- 10/100 Base-T Ethernet LAN
- 2 x RJ11 - jack / POTS

Functions

- CLIP for calls from LTE/UMTS/GSM to FXO
- Mobile internet via LTE, HSPA+, HSPDA, EDGE or GPRS
- Suitable for analogue telephone devices (POTS) via RJ11
- Analogue G3 fax service via separated RJ11
  alternatively as a SIP-Server
- Local loop redundancy for PABX
  or as SIP-Trunk
- SIM switch for up to 2 SIM cards per radio channel **
- SMS short message via TELNET* or short message API*

  * requires software plug in
  ** requires WLL550 Pro SimSwitch

Configuration

- Integrated LCR function
- Black- and white lists
- Optional CLIP settings for GSM to analogue FXO
- Setting a GSM minimum field strength
- Auto detection for the network with 'the best' signal
  if using a SIM switch**

Maintenance

- PC configuration software for
  Microsoft Windows© 9x/NT/2000/XP/VISTA/ 7/ 8/ 10
- Setup and maintenance locally or by remote via LAN,
  Reverse IP or GSM CS-data call
- Configuration and maintenance during normal operation
- Firmware update locally, via LAN or GSM CS-data connection
- LED indicators for various operational states
- Troubleshooting by recording traces locally or via remote session
  as text file or in a Wireshark© editable format.

Technical data:

Radio module:	Gemalto/Cinterion TC63i/TC65i GSM quad-band modem Class 4 (2W with 850/900MHz) Class 1 (1W with 1800/1900MHz) Sensitivity: -106dBm W
	Gemalto/Cinterion PH8 Quad-band GSM/GPRS/EDGE: 850 / 900 / 1800 / 1900MHz Five-band UMTS/HSPA+: 800 / 850/ AWS/ 1900 / 2100MHz EDGE Class 12 GPRS Class 12
	Gemalto/Cinterion PLS8 Five Band LTE: 800/900/1800/2100/2600 MHz Tri Band UMTS (WCDMA): 900/1800/2100 MHz Dual Band GSM/GPRS/EDGE: 900/1800 MHz
Service interface:	LAN – network, Reverse IP or GSM – CS-data service
Connections: External power supply:	Voltage range DC 12-30 Volt (WLL550 Pro REV3 to REV5) via MATE-N-LOK e.g. via 12V on-board supply system or wall power supply
Telephone:	2-wire POTS / RJ11
G3-fax:	2-wire POTS / RJ11
Dialling system:	DTMF (Dual-tone multi-frequency)
IP - interface:	RJ 45 Ethernet 10/100 Base-T SIP 2.0 / UDP as server, client or peer-to-peer Additional protocols: ARP, DHCP, DNS, STUN, VLAN Codec: G.711 µ-law, G.711 a-law Authentifikation: MD5
Internet:	via LAN-network and GPRS/HSPDA/HSPA+
Short message (SMS):	via TELNET or SMS-API (optional)
Antenna:	One combiner 2 in 1 with SMA female connector on the back panel. One additional SMA connector for LTE diversity
Size:	approx. width 153mm x height 35mm x depth 185 mm (REV 2 -4)
Weight:	approx.. 1050 g (2 radio modules)
Power consumption:	min. 3w / max. 6 w (2 radio modules)

WLL 550 Pro:

WLL 550 Pro, 1 GSM + 1 LTE channel / 1 LAN Port   Order.-No.: 241 193
SimSwitch WLL 550 Pro, 1 GSM + 1 LTE channel, 1 LAN Port   Order.-No.: 250 063

Accessories:

Mounting brackets (included in delivery)

DC power cord open endings (included with the device)
Power plug 15V / 2A (included in delivery)

Optional accessories:
Various GSM / UMTS / LTE antennas

Software options:

SIP upgrade / software module
(by upgrade code)   Order.-No.: 250 856

SNMP - activation
(by upgrade code)   Order.-No.: 210 155

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