DA1275 DECT REPEATER
GAP CAT-iq Speedport[*1)], HomeBox encrypted DECT extension

According ETSI Standards

DA1275 Repeater

[*1)] registered trademark of Deutsche Telekom AG

DA1275 represents a new technology for extending the range of DECT base stations.

DA1275 has been designed to extend the DECT range of base stations (in particular DSL VoIP Router) with encryption enabled. DA1275 doubles the DECT range and telephone calls remain safe from interception.

new: SAT Mode

This innovative DECT extension is called „Satellite Mode"(SAT Mode). Using SAT Mode the DECT base station must not support Repeater-Mode and Encryption (safety from interception) can remain active. This technology has been derived from professional Multicell Networks (patents pending).

traditional: REP Mode

DA1275 can be used as traditional DECT Repeater in "Repeater Mode" (REP Mode) for all commercially available DECT basis stations. In REP Mode the DECT base station must be switch into Repeater Mode and Encryption must be disabled. REP Mode cannot be used with encrypted DECT transmission. However in REP Mode, Star and Cascade configurations are possible.

Bild Quelle: Deutsche Telekom Pressestelle

DECT innovation

In SAT Mode DA1275 can double the range of DSL VoIP Routers e.g. Deutsche Telekom Speedport, O2 HomeBox or TP-Link VoIP Router…These DSL VoIP Router must not adapted to this range extension. Many of these DSL VoIP Router do not support Repeater Mode and Telecoms want to keep the safety from interception. Exactly this solution is provided by DA1275.

DECT Handsets can make calls in the extended range and move during calls in the whole coverage area without limitations. (Roaming/Handover).

In particular the new SAT Mode delivers a perfect solution for DECT (CAT-iq) base stations which ...

- do need reach all rooms and areas
- do not support Repeater Mode
- shall stay in encrypted DECT transmission

DA1275 is compliant to all relevant ETSI Standards and supports all DECT base stations according GAP- and CAT-iq Standards.

DA1275 tested im SAT Mode

DSL VoIP ROUTER

Speedport)	W 723V	Typ A, B
Speedport	W 724V	Typ A, B, C
Speedport	W 921V, W922V	
Speedport	Hybrid, NEO, SMART	
HomeBox	6641	
SwissCom	Internet Box	
TP-Link	AC750, AC1600, AC1900, AC2600	
……		

DECT Handsets

Speedphone	Typ 10,30,50
Speedphone	Typ 11,31
Gigaset	diverse Typen (SL78, S850, C430,….)
Swissvoice	Rousseau
…..	

DECT Range in SAT Mode doubled and encrypted

DA1275 DECT REPEATER

WE PRODUCE YOUR PRODUCT
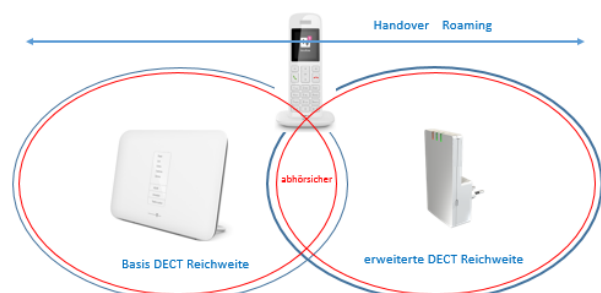
Technical Data

ETSI Standards

DECT Common Interface	EN 300 175
DECT GAP (Telephony)	EN 300 444
DECT CAT-iq2.0 (HD Voice)	TS 102 527-1/3
DECT WRS (wireless relay)	EN 300 700
DECT Band	EU 1880MHz – 1900MHz / GFSK
ERP (eff radiated power)	max 24dBm (10mW thermic/Chanel)
Codecs	G.726 (ADPCM)/full slot
	G.722 (wide band)/long slot

Security

DECT encryption	DSAA (64bit) DSAA2 (128bit)
Registration	Authentication with system code
Encryption	DCK per Link via CR process
RF access security	reduced RX Sense during Registration

Configuration

REP Mode	Star configuration max 5 Repeater
	Cascade configuration max 2 Repeater
	mixed Configuration max 5 Repeater
SAT Mode	1 Repeater (encrypted mode)

Connectors

Power Plug	220VAC/50Hz EURO Norm
USB	USB2.0 Standard
	(for SW Upgrade via PC APP)

Weight /dimensions

dimensions H * W *D	120mm * 62mm * 65mm
weight	120 gr.

Temperature

storage	-10°C till +75°C (non-condensing)
operation	+ 5°C till +45°C

Design

LED

220V power plug
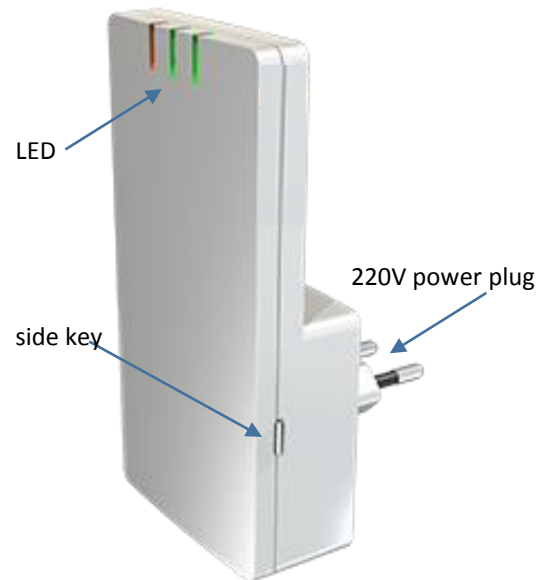
side key

housing	white, polished
	wall plug-in EURO norm 220V/50Hz
LED	3 LED (power on, DECT quality, active call)
side key	ex-works RESET

Product Information

Type	DA1275
Name	DECT Repeater
Product Code	1275.1000.01
Design	OEM Logo and Label
Packaging (gift box)	OEM design

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