

## Base station, BS330 NTM/KRCNB 301 0x/1



### General

The basic function of the base station is the transmission and reception of DECT radio signals. To this end the base station is equipped with a radio, capable of accessing 120 radio channels.

The base station is controlled and powered from the radio exchange via two

twisted pairs. Extra power pairs can be used to increase the powering range of the base station. The base station can also be powered using a simple AC-adaptor.

This base station is designed for indoor use and is compatible with the integrated cordless solutions of the MD110 and BusinessPhone and DCT1800 systems.

### **Antennas**

The BS330 has two internal antennas. At any time during the transmission or reception cycle only one antenna is active. However, fading of the radio signal is corrected by switching to the other antenna for transmission and reception. This switching, also called spatial and polarisation diversity can be done per time slot and results in a more stable radio performance and hence better speech quality.

### **Interface**

The connection between the base station and the radio exchange is established via two proprietary U-interfaces using 2B+D. Each U-interface uses one twisted pair.

The two bidirectional U-interfaces provide a data rate of 128 kbits/s for speech each, which is sufficient for 8 simultaneous calls.

### **Connectors**

Two RJ45 and one RJ12 modular 'jack' type connectors are located on the rear of the base station. The two RJ45 jacks are for data/power connection the RJ12 jack is for connection to PC. The two data/power connectors are interconnected inside the base station. This arrangement allows connection of more than one cable to the base station, for instance one for data and one for powering.

### **Distances**

The maximum length of the cable between the radio exchange and the basestation depends on the supply voltage, the wire thickness of the twisted pair cables and the number of express power pairs used. The length of the cable between the telephone system and base stations can be up to 1.9 km. The radio coverage radius of the base station depends on the propagation characteristics and varies between 20 m and 300 m.

### **Easy software upgrade**

The software of this base station resides in programmable non-volatile memory. This memory can be programmed using the Cordless System Manager or Base Station Manager software.

### **Power**

When powering the base station from the PBX or radio exchange, the voltage offered to the base station may vary, depending on the distance between base stations and radio exchange (i.e. power supply). The base station requires a minimum voltage of 21 Vdc. The maximum input voltage that can be offered to the base station is 56 Vdc. The polarity of the supply voltage is not important.

### **Mounting**

The base station has facility for mounting on a wall, ceiling or pole, using the same mounting bracket. The bracket can be secured to the supporting surface first and then the base station can be fixed on the bracket, making base station fitting and exchange relatively simple.

### Versions

- NTM/KRCNB 301 03/1 for use with DECT 1880-1900 MHz GAP/CAP systems
- NTM/KRCNB 301 02/1 DECT 1900-1920 MHz GAP/CAP for use with systems
- NTM/KRCNB 301 04/1 for use with DECT 1910-1930 MHz GAP/CAP systems

### Features

- DECT radio interface
- Can handle 8 simultaneous calls
- Connection to PBX or radio exchange via 2 twisted pairs
- Powering via data lines and optionally extra lines
- Low power consumption
- Distances between the telephone system and base stations of up to 1.9 km
- Easy software upgrade
- Internal antennas
- External LED status indication
- Compact lightweight design
- Easy installation in minimal space to flat or round surfaces

### Specifications

Specifications subject to change without prior notice.

#### Physical

Dimensions:	200 (w) x 165 (d) x 56 (h) mm
Weight:	470 grams
Material:	ABS moulded plastic
Colour:	light grey

#### Environmental

Operating temperature	-10 to +55 °C
Storage temperature	-40 to +70 °C
Relative operating humidity	15 to 90%, non condensing
Relative storage humidity	5 to 95%, non condensing

#### Functional

Operating voltage	21 to 56 Vdc
Power consumption	typical 3 W maximum 5 W
RF output power (e.r.p.)	between 19 dBm and 24 dBm
Receiver sensitivity	at least -86 dBm at B.E.R. = 10 <sup>-3</sup>

#### Compliance to European regulations and standards

CE regulation	1999/5/EC, Radio & Telecommunications Terminal Directive R&TTE 73/23/EEC, Low Voltage Directive 89/336/EEC, Electromagnetic Compatibility Directive (EMC)
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CE marking	<b>CE 0344</b>
DECT standard	TBR6:1999
Safety standard	EN 60 950:1992;A1, A2, A3, A4 + A11, IEC 60 950: 1991;A1 - A4
EMC standard	ETS 300 329 06:1997

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