

Base Station BS330/BS340

Note: The following features and technical specifications are applicable for release 4H and later only.

Features

- DECT GAP/CAP radio interface
- Supports Broadcast and Multicast Messaging
- Supports non-blocked alarm channels
- 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 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
- Can handle up to 8 simultaneous calls



Technical Specifications

Physical

Dimensions (l × w × d):	56 × 200 × 165 mm (including mounting bracket)
Length antennas:	107 mm
Weight:	BS330: 470 grams (incl. standard internal antennas) BS340: 496 grams (incl. standard external antennas)
Connector type:	Data lines: RJ45 (8-pins) External antenna (BS340): MCX (female)
Material:	ABS moulded plastic
Colour:	Light grey (NCS 2005-Y20R)

Power

Powering method:	Locally, or centrally via 2 data pairs (UTP) and 1 optional pair
Operating voltage:	21 to 56 V DC
Power consumption:	1.3 W to 2.0 W depending on number of slots currently in use.

Transmitter radio specifications

RF carriers:	Standard: 1881,792+n * 1,728 (0 ≤ n ≤ 9) Latin America: 1912,896+n * 1,728 (0 ≤ n ≤ 9) China: 1902,528+n * 1,728 (0 ≤ n ≤ 9) USA and Canada: 1921,536+n * 1,728 (0 ≤ n ≤ 4)
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PRELIMINARY

Frequency ranges:	Standard: 1880 - 1900 MHz Latin America: 1910 - 1930 MHz China: 1900 - 1920 MHz USA and Canada: 1920 - 1930 MHz
Centre frequency stability:	± 25 ppm (crystal controlled)
Modulation method:	Gaussian filtered Frequency Shift Keying (GFSK)
3 dB signal band width:	as per EN 301406:2001
Power spectrum:	equal to GFSK with BT = 0.5
Frequency deviation:	as per EN 301406:2001
AM modulation:	as per EN 301406:2001
Peak output power at RF-connector:	19 to 24 dBm
Output spurious:	as per EN 301406:2001
Harmonics:	as per EN 301406:2001
Ripple:	as per EN 301406:2001
Typical RF output impedance:	50 Ω

Receiver radio specifications

Receiver sensitivity:	typical -86 dBm with a B.E.R. = 10^{-3} at the radio interface
Input compression:	better than -30 dBm at -1 dB compression point
Maximum input level:	as per EN 301406:2001
Typical C/I ratio:	as per EN 301406:2001
Typical C/N ratio:	as per EN 301406:2001
Unwanted emissions:	as per EN 301406:2001

Base station cable

Signal and power transport:	2 unshielded twisted pairs
Express power transport:	1 optional unshielded pair (may be twisted)
Maximum length:	1.9 km with standard CAT5 cable (FTP CAT5e 4x2x0.5).

Environmental

Operating temperature:	-10 to 55 °C
Storage temperature:	-40 to 70 °C
Operating relative humidity:	15 to 90% RH, non condensing
Storage relative humidity:	5 to 95% RH, non condensing

EMC

Conducted emission:	class B (EN 55022)
ESD:	8 kV air discharge (EN 61000-4-2)
Immunity to electromagnetic fields:	3 V/m (EN 61000-4-3)
Electrical fast transients (EFT):	0.5 kV on signal wires (EN 61000-4-4)
Surge:	0.5 kV differential mode (EN 61000-4-5)
Conducted continuous disturbance:	3 V (EN 61000-4-6)

Specifications are subject to change without notice.

PRELIMINARY

Compliance to European regulations and standards

CE directives:	73/23/EEC (LVD), 89/336/EEC and 92/31/EEC (EMC), 1999/5/EEC (R&TTE), and 93/68/EEC (CE Marking)
Product marking:	CE
Radio:	EN301406:2001, EN 300444:2001
Safety:	EN 60950-1:2001 class III
EMC:	EN 301 489-6:2002

Compliance to International regulations and standards

Safety	IEC60950-1:2001
DECT	ACA TS028
EMC (US & Canada):	FCC parts 15

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