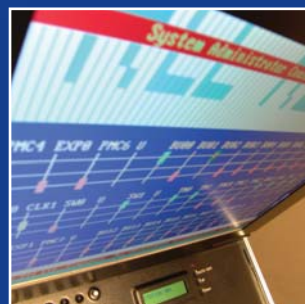


# Base Station Controller

Wireless Local Loop

DECLoop<sub>WLL</sub>

closing the communication gap



**Base Station Controller or BSC** is a DECT exchange for wireless subscribers and provides an interface to Public Switched Telephone Network (PSTN). Functions such as call processing, BS power feed and PCM/ADPCM transcoding are handled by the BSC.

**The BSC offers features:**

1. Voice and Data Calls;
2. support for AOI (Always-On Internet);
3. operations and maintenance console;
4. switching or access point;
5. local and remote call monitoring.

Key Specifications	
Number of Subscribers	1000 (Maximum); per BSC (2000/BSC- optional)
Number of Base Station	20 (Maximum); per BSC
Number of BSDs	5 (Maximum); per BSC
Number of E1 interface lines to PSTN	8 per BSC
Redundancy	Hot standby provided for all controller cards.
<b>Protocols</b>	
a. Access Mode	- V.52 - SS7 or R2MF (BSC configured as RLU) In this mode BSC can be configured as a DECT access point using SS7 protocol. In this case the parent exchange takes over the switching responsibility and BSC behaves as an access point.
b. Switch Mode	- SS7 - R2MF
Busy Hour Call Attempts (BHCA)	20,000
Voice Coding	Toll quality, 32 kbps ADPCM as per ITU T G.726
Number of Tones	Up to 11
Number of three party conferences	8
Number of announcements	10 (Two six-second segment played alternately for each announcement.)
Modulations	GFSK, MC-TDMA
Data Transmission rate	32 kbps (simultaneous voice and data) or 64 kbps data only.
Call Monitoring (Applicable to Switching mode only)	- Local - Remote
Standard Complied	
R2MF	ITU Standards
SS7	ETSI Standards
V5.2	ETSI and ITU Standards
EMI/EMC	CISPR 22/2000 (Class B Equipment)
Air Interface	ETSI Standards
Speech	ITU-T Standards
E1 Interface	ITU-T Standards



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