



## Powerhouse Performance in a Petite Package

Introducing the new BS-82 II

Designed for applications ranging from classic micro coverage to microcellular scenarios and far beyond, the remarkably powerful Enhanced Micro BTS BS-82 II delivers impressive performance and high RF output. Offering coverage and range comparable to the flagship BTS line, it introduces a powerful new addition to its predecessor's rich set of features – EDGE.

**SIEMENS**  
**m**obile

# Bringing new performance capabilities to the micro/macro cellular world

Rugged, versatile, powerful and compact, BS-82 II is an indoor/outdoor solution catering to all types of micro cellular applications. Covering both hot spots and dark spots, it is able to satisfy very extensive coverage demands. What's more, BS-82 II is versatile enough to handle all macro cellular applications. Depending on site and operator demands, it can serve urban, suburban and rural areas, including:

- airports, train stations and other hubs,
- highways,
- stadiums,
- shopping malls, parking lots,
- hot spots (local capacity enhancement), and
- dark spots (local coverage enhancement)

It is also well-suited for in-building coverage, including configurations comprising distributed antenna systems.

## **Guaranteed future-proof**

Designed to reuse BS240 family Carrier, Combining and Core units and modules, BS-82 II offers a „built-in“ guarantee - it is sure to support all future feature enhancements! One base shelter running BR7.0 accepts two TRX, and four TRX when running BR8.0. Base shelters may be augmented with two extension shelters so that a single BTS site can accommodate up to twelve TRX. Suitable for both indoor and outdoor installation, shelters ship with a wall mounting kit; an optional pole mounting kit is also available.

## **The Siemens advantage**

As a full-fledged member of the Siemens BTS family, BS-82 II poses no new learning hurdles for your staff and requires far less training effort. Upgrading to EDGE is easily done with ECU hardware and software release BR 7.0, and with FlexCU hardware and software release BR 8.0, BS-82 II is ready for four TRX. Because it is designed to use mainline modules, it:

- automatically accommodates all new features
- helps streamline your inventory.
- allows modules to be exchanged later for macro and micro BTS reconfiguration, and clearly improves your cost position.

## **Convenient access, effortless extension**

Internal modules are accessed via two doors on the left and right sides of the shelter. They open 180° so that modules are easily swapped. Two CU slots accept two or four TRX per cabinet. Two extension shelters may be connected to one base shelter for BTSE FlexCU-equipped configurations with up to 12 TRX and GCU/ECU configurations with six TRX. Shelters may be spaced up to two meters apart.

## **Unrivalled installation, operation and maintenance ease**

A standard 19" slot on the right side accepts additional link equipment (such as microwave or other connectivity gear). Shelters are light grey; custom colors are available on demand.

An optional ready-to-run package is also available - simply plug in (say, an E1 link and AC supply) and power up. For even greater convenience, BS-82 II configures remotely via Radio Commander, including remote SW downloading.

## Benefits

- Flexible design facilitates reconfiguration efforts in the event of new site or cell requirements.
- True compatibility with legacy Siemens Base Station ensures easy integration into embedded infrastructure.
- Tremendously flexible, modular architecture future-proofs BS-82 II.
- Easy on-site serviceability simplifies upgrading and maintenance procedures.
- Just one base and one extension shelter affords dual-band capability.
- Offers a very wide application range in an ultra compact package.
- Sites are far easier to set up and cheaper to operate than with traditional BTS.
- Cuts deployment costs and installation time.
- Accommodates flexible combination options, thus requiring fewer antennas.
- Features are fully aligned with the main SBS range.
- Single-antenna operation (one antenna can serve two TRX).
- Architecture is ready for future GSM feature enhancements
- Features designed specifically to promote CAPEX and OPEX savings (see VBA details).
- Satisfies all U.S. requirements

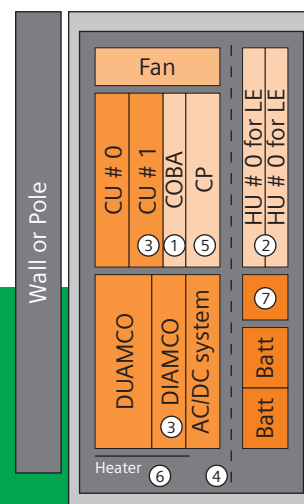
## Key Features and Technical Data

- Full EDGE support
- Pole / wall mountable
- Indoor & outdoor capability (IP55)
- Uses the main product range's carrier units: GCU or ECU or FlexCU
- High RF output power: Up to 42 watts at the antenna (with ECU & 2:2 combining)
- Two TRX per rack with BR 7.0
- Four TRX per rack with BR 8.0
- Mixed operation is possible, for instance, FlexCU + ECU in a single rack (-> 3 TRX)
- Accommodates up to twelve TRX (with two FlexCU Extension Racks)
- Battery backup (standard feature): Three for up to 15 min. (min. to max. CU/traffic configuration)

- Wide input voltage range: 88 - 300 V AC
- Temperature: -33°C to + 55°C
- Two HU (height units) in a standard 19" rack accommodate all types of connectivity, microwave, and other equipment.
- Dimensions: (W x D x H): 60 x 43 x 83 cm
- Volume: ~ 200 liters

### Available for:

- 900 MHz, E-GSM
- 900 MHz, GSM-RE
- 1800 MHz
- 850 MHz
- 1900 MHz



- Notes:
- 1) only relevant and mandatory for Base Shelter
  - 2) only relevant and optional for Base Shelter
  - 3) optional modules
  - 4) separation, metal plate
  - 5) Cover Part for empty slot
  - 6) only relevant and optional for outdoor installation
  - 7) Breaker LMT, Ethernet



**AC** Alternating Current  
**BTS** Base Transceiver Station  
**CAPEX** Capital Expenditure  
**COBA** COre Base  
**DC** Direct Current  
**ECU** EDGE CU  
**EDGE** Enhanced data rates for GSM Evolution  
**E-GSM** Extended GSM

**FDUAMCO** Flexible DUAMCO  
**FlexCU** Flexible CU  
**GCU** GSM CU  
**GSM** Global System for Mobile Communication  
**OPEX** Operational Xpenditure  
**RX** Receive/Receiver  
**SBS** Siemens Base Station System  
**TRX** Transceiver

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