



## TB3p

### World's smallest TETRA base station

The TB3p mini TETRA base station from CASSIDIAN® is the world's smallest TETRA base station for easy "site less" installations.

It is especially suited for :

- establishing indoor radio coverage
- filling up gaps in coverage
- standalone use
- providing an area with radio network coverage temporarily.

The TB3p mini TETRA base station can be optimally used in metro and railway stations, airports, offices, shopping malls, stadiums and other public areas.

The TB3p can help eliminate the last gaps in radio network coverage used, for example, indoor or outdoor ; a benefit that network users will appreciate.

The TB3p has extremely small carbon footprint. Its power consumption is less than 50W, which is less than 10% of a conventional macro base station.

The miniaturization of the base station has not been at the cost of features. The TB3p offers exactly the same powerful features as its big brothers TB3 and TB3c, from TEDS data to air interface encryption and from type 1 handover to base station fallback.



## TB3p mini TETRA base station

The TB3p mini TETRA base station is a powerful little package. It stuffs all of the features of the big TB3 base station into a unit that is about the size of a laptop.

### Provides coverage

Using the TB3p as a standalone base station provides hotspot coverage where the network may not reach.

The TB3p can provide indoor coverage or plug gaps in the outdoor network. Thanks to its TEDS capability, the TB3p can provide coverage in data hot spots.

### Smallest carbon footprint

The TB3p's power consumption is about 50 W - less than 10% of a conventional macro base station.

The TB3p offers the same powerful features - from TEDS data to air-interface encryption, from type 1 handover to base station fallback - as its big brother.

### Saves money

The TB3p base stations don't require costly sites, which means they are cost-effective. Base station site rentals and transmission fees typically account for up to 80% of operating costs.

### Flexible

The TB3p can use either the conventional time-division multiplexing (TDM) transmission but also the internet protocol (IP) transmission.

The TB3p comes pre-configured, so setting it up requires no RF expertise.

### Easy to deploy

One person can easily carry the TB3p to the site, install it and set it up. Or, it can just as easily be set up to provide temporary coverage.

There is no need to visit the TB3p in person. You can operate and maintain it over a remote connection.

### Frequency bands

TB3p 350:

351 - 356 MHz (Rx)

361 - 366 MHz (Tx)

TB3p 380:

380 - 385 MHz (Rx)

390 - 395 MHz (Tx)

TB3p 385:

385 - 390 MHz (Rx)

395 - 400 MHz (Tx)

TB3p 410:

410 - 415 MHz (Rx)

420 - 425 MHz (Tx)

TB3p 415:

415 - 420 MHz (Rx)

425 - 430 MHz (Tx)

TB3p 800:

806 - 824 MHz (Rx)

851 - 869 MHz (Tx)

### TB3p technical specifications

- Size (Width\*Height\*Depth) :  
250\*110\*400 mm (1-carrier)  
250\*150\*400 mm (2-carrier)
- Weight (max.) :  
11 kg (1-carrier)  
15 kg (2-carrier)
- RF power max. 4 W
- Dynamic sensitivity : < -112 dBm (TCH 7.2, BER 4%, TU50) without diversity
- Receiver class Class A and B ETS300 392-2
- Number of receivers per radio 1 or 2
- Duplex spacing 10 MHz (45MHz @ 800MHz band)
- Switching range  $\leq$  5 MHz (18MHz @ 800MHz)
- Carrier spacing 25 kHz
- Combiner options: Wideband hybrid combiner with duplexer or combiner by-pass with duplexer
- Supply voltage 10-32 V DC
- Power consumption :  
~50 W (1-carrier)  
~80 W (2-carrier)
- Operating temperature (ambient):  
- 10°C to +55°C
- TBS transmit mode Downlink continuous (D-CT) (as specified in the TETRA standard)

### O&M functions:

- Remote and local configuration
- Remote and local alarm handling
- Remote and local SW downloading
- Remote and local test services
- 9 alarms and 6 control ports in 2-carrier variant, 4 alarms and 3 controls in 1-carrier variant.

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