



4G  
SOLUTION  
3G  
SOLUTION

## S62D DualMode 4G/3G Access Point for enterprise flexibility

The S62D 3G/4G small cell Access Point (AP) is a cost-effective solution for 4G+4G or 3G+4G coverage and capacity in enterprise environments

### The S62D Access Point

The S62D AP is a cost optimised indoor AP, targeted at enterprise environments such as small offices, home offices, retailers, and public spaces. As a "dual mode" AP, it is available as 4G+4G or 3G+4G, with independent configuration for each internal unit enabling, for example, multi-band support in 4G.

The S62D delivers 3G and 4G coverage, additional capacity and densification when and where the mobile network operator needs it.

With up to 150/50Mbps LTE FDD performance, each LTE unit supports up to 32 active users. Each 3G unit provides 21/5.75Mbps and 16 or 24 active users (option for 30). Flex and MOCN are supported for both LTE and 3G. Full multi-operator support for CSFB also supported.

The S62D AP can be installed by end-users in an unplanned simple "plug-and-play" installation model, leveraging ip.access' Self Organising Network (SON) and Network Listen features (deployed in over 2 million small cells worldwide). Alternatively, the S62D AP can be installed by qualified technicians and service partners in a more complex planned deployment.

Full mobility is provided between the S62D AP and neighbouring 4G, 3G and 2G cells, allowing seamless handover of calls to or from the macro network.



S62D DualMode Access Point

The S62D is housed in a compact all-plastic enclosure with internal antennas, which can be wall or ceiling mounted.

### Viper™ virtualised enterprise RAN platform

The S62D is part of ip.access' Viper end-to-end small cell platform for enterprise RAN, which integrates the following components:

- A range of plug-and-play 2G, 3G and 4G APs for small, medium and large enterprise deployments
- Virtualised Gateways which securely handle and route all traffic between the APs and the operator's core network
- SUMO™ Multi-Operator technology for nanoLTE, allowing a single access point to provide coverage for all networks

The S62D provides extra flexibility in a single unit, cutting costs and simplifying the small cell deployment process.

## S62D Access Point

### LTE radio

2 x 2 MIMO, 17dBm per port  
3 / 5 / 10 / 15 / 20 MHz channel bandwidths

### LTE services

Up to 16/32 active users per unit depending on configuration  
Up to 150/50 Mbps depending on the bandwidth configured  
VoLTE or CSFB to GERAN/UTRAN for voice  
MOCN with active policy enforcement (SUMO)  
Warning system broadcast - CMAS and ETWS supported  
Full GBR and non-GBR support with QoS aware scheduler

### 3G radio

20dBm

### 3G services

16 or 24 active users per unit (option for 30 active users)  
HSPA 21/5.75 Mbps  
R99 PS (64, 128, 384kbps)  
CS voice: AMR & WB-AMR  
Multi-RAB to each UE. any combination of:  
CS voice and/or up to 3 HSDPA/HSUPA or  
CS voice and/or up to 2 R99 PS

lu-Flex and MOCN support

Cell broadcast

### LTE and 3G Mobility

Reselection to/from macro layer & APs  
Intra-frequency, inter-frequency, Inter-RAT  
Handover to/from macro layer & between APs  
Intra-frequency, inter-frequency, Inter-RAT

### Interfaces

LTE S1 (S1-Flex via gateway), X2  
3G Iuh  
Uu LTE and 3G air interfaces to standard LTE and 3G UEs

### Band Options

FDD-LTE  
Band 3 with 1, 2, 4, 5, 7, 8, 12, 13, 14, 17, 20, 28 by request  
3G UMTS  
Bands 1 with 2/5 by request  
Other bands available subject to demand

### Network Listen

Network Listen supports radio synchronisation and RF planning

### Synchronisation

NTP support  
IEEE1588v2 support (LTE)  
Network Listen

### Security

3GPP air interface security  
IPsec IKEv2 on AP-SeGW links  
X.509 certificate authentication with CRL  
Code signing

### Environmental & physical

Antennas  
Internal  
Dimensions  
290 x 206 x 47mm including mounting bracket  
Weight  
1.6kg including mounting bracket  
Power input  
DC or PoE  
Temperature range  
Wall mounted: 0° to 45°C  
Ceiling mounted: 0° to 35°C  
Operating humidity  
10 to 70% non-condensing  
Ingress protection  
IP30  
Mounting  
Wall or ceiling mounted

Viper™ end-to-end small cell platform

