

The S62D 4G/3G small cell is a cost-effective solution for LTE or LTE+3G coverage and capacity in enterprise environments

## S62D DualMode

4G/3G Access Point  
for enterprise flexibility

**4G**  
SOLUTION

**3G**  
SOLUTION

### The S62D Access Point

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

The S62D delivers 4G and 3G coverage and capacity into mass-market environments, and can be installed directly by end users in an unmanaged deployment.

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.

With fully self-configuring, fully planned configuration or an optimal mix, the S62D simply requires mounting, then power and Ethernet connections for a plug-and-play installation. ip.access' proven Self Organising Network (SON) and Network Listen features have already been used for deployments approaching 1.5 million small cells worldwide.

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.

The S62D is housed in a compact all-plastic enclosure with internal antennas, which can be wall, ceiling or desk 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 small cell Access Points 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, allowing a single access point to provide coverage for all networks
- As A Service deployment models, including core network integration, AP deployment, and network operation.



S62D DualMode Access Point

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

## S62D Access Point

### LTE radio

2 x 2 MIMO, 50mW 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

100mW

### 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 luh  
Uu LTE and 3G air interfaces to standard LTE and 3G UEs

### Band Options

FDD-LTE	Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 20, 28
3G UMTS	Bands 1, 2/5

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  
X509 certificate authentication with CRL  
Code signing

### Environmental & physical

Antennas	Internal
Dimensions	290 x 206 x 47mm inc. wall bracket
Power input	DC or PoE
Temp. range	0° to 45°C
Operating	10 to 70% non-condensing
Ingress protection	IP30
Mounting	Wall mounted, ceiling mounted or free standing

Viper™ end-to-end small cell platform

