

The S8 and S16 nano3G Access Points provide high quality UMTS voice and data coverage inside small offices, shops, and public spaces

S8/16 nano3G[®]

3G SoHo Access Point
for small enterprises

3G
SOLUTION

The S8/S16 Access Points

The S8 and S16 APs are cost-optimised indoor 3G small cells, targeted at enterprise environments such as small offices, home offices, retailers and public spaces.

The small, free standing form factor and low power consumption make it easy for the end customer to install for themselves, requiring just an ethernet cable and power. But unlike Wi-Fi or consumer femtocells, nano3G Access Points support bidirectional handover with the macro network and operate in open access mode, so all customers in the office or shop can get the benefit of improved coverage and fast data speeds.

The S8 and S16 models support up to 8 and 16 simultaneous active users respectively (each with concurrent voice and high-speed data sessions) and are available for Bands 1, 2/5 or 4.

- Plug-and-play customer installation – quick low cost deployment
- Output power optimised for localised deployments – simplifies cell planning
- Standard DC power supply – easy for customers to connect

Easy deployment

nano3G access points are fully 'plug-and-play', allowing them to be simply mailed out to end-users for unmanaged deployments, or installed and commissioned as part of a managed roll-out.

Viper™ virtualised enterprise RAN platform

The S8 and S16 are 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
- As A Service deployment models, including core network integration, AP deployment, and network operation.



S8/S16 nano3G AP

S-class SoHo access points can be deployed by end-users as easily as a Wi-Fi router, cutting costs and simplifying the small cell rollout process.

S8/S16 nano3G Access Point

S-class small cell

	S8 AP	S16 AP
Simultaneous dedicated users	8	16
RF Output Power	20 mW	100 mW
UMTS bands	1, 2/5, 4	1, 2/5
Electrical Power	8 W	12 W
	+9V DC socket for AC/DC adaptor	
PoE	External adaptor option	
External antennas	No	
Oscillator	VCTCXO/OCXO option	
NTP	Time stamp, oscillator sync	
Access Mode	Open (default) or closed access	

Environmental & physical

Dimensions	168 x 164 x 52 mm (S8/S16)
Dimensions without stand	168 x 160 x 39 mm (S16) 168 x 160 x 30 mm (S8)
Operating temperature	0° to 45°C (S16) 0° to 40°C (S8)
Operating humidity	10 to 70% non-condensing
Ingress protection	IP30
Mounting	Wall mounted or free standing

Network Listen

3G & 2G Network listen to support radio synchronisation and RF planning

Security

3GPP air interface security

IPsec IKEv2 on AP-SeGW links

X509 certificate authentication with CRL

Interfaces

luh interface to AC

Uu air interface to standard 3G UEs

UTRAN mobility

Reselection & handover to/from macro layer

Reselection & handover between APs

Intra-frequency, Inter-frequency, Inter-RAT

UTRAN services

AMR & WB-AMR CS Voice

Rel 99 PS 64/128/384 kbps

HSPA+ 21/5.75 Mbps (S8 restricted to HSPA 14.4/1.4 Mbps)

Supplementary Service transparency

SMS, MMS, Cell Broadcast

Multi-RAB combinations to each UE

Voice+ up to 3 HSPA RABs

Voice+ up to 2 R99 PS

Cell_FACH, Cell_PCH, Fast dormancy for high UE density

Viper™ end-to-end small cell platform

