



S8/S16 nano3G[®]

3G SoHo Access Point for
small enterprises

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

The S8/S16 Access Points

The S8 and S16 APs are cost-optimised indoor 3G APs, 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 APs 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



S8/S16 nano3G AP

Easy deployment

nano3G APs 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 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

The 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 deployment process.

S8/S16 nano3G Access Points

S-class small cells

Simultaneous dedicated users
S8: 8
S16: 16

RF Output Power
S8: 13dBm (20mW)
S16: 20dBm (100mW)

UMTS bands
S8: 1, 2/5
S16: 1, 2/5

Internal antennas

VCTCXO/OCXO oscillator option

NTP for time stamp for certificate validation and oscillator sync

Open/Closed access modes

UTRAN services

CS Voice
AMR
WB-AMR (Config-A)

Rel 99 PS 64/128/384kbps

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

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

Network Listen

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

Security

3GPP air interface security

IPsec IKEv2 on AP-SeGW links

X.509 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

Environmental & physical

Dimensions on stand
168 x 164 x 52mm (S8/S16)

Dimensions without stand
168 x 160 x 39mm (S16)
168 x 160 x 30mm (S8)

Weight
0.4kg (S8)
0.42kg (S16)

Temperature range
S16: 0° to 45°C
S8: 0° to 40°C

Operating humidity
10 to 70% non-condensing

Ingress protection IP30

Mounting
Wall mounted or free standing

Power

Power usage
S8: 8W
S16: 12W

+9V DC socket for AC/DC adaptor

External PoE adaptor option

