

The E40 4G small cell generates a high quality LTE signal inside enterprise and public spaces, using IP backhaul for rapid deployment

E40 nanoLTE[®]

4G Enterprise Access Point
for midsize enterprises

4G
SOLUTION

The E40 Access Point

The E40 AP is a multi-band indoor LTE small cell, targeted at midsize enterprise environments such as offices, retailers, and indoor public spaces.

The E40 significantly improves indoor 4G coverage and capacity, and can be installed by technicians or service partners either as part of a managed roll-out, or directly by the end-user in an unplanned deployment.

With up to 75/25 Mbps LTE FDD performance, the E40 supports up to 16 active 4G users.

The E40 AP has quad band support, with three regional variants covering the US, EU & other markets. Bands can be changed in the field to support spectrum refarming.

Full mobility is provided between the E40 AP and neighbouring 4G, 3G and 2G cells, allowing seamless handover of calls to or from the macro network. Voice calls are supported with VoLTE, or using CSFB to offload voice service to 3G or 2G macro network.

Standard Ethernet IP backhaul is used. Power is provided from an external DC supply.

The E40 is designed for wall mounting, and is supplied with integrated SMA antennas, which can be removed to enable connectivity into external antennas, DAS systems or an external PA for long range extension up to 4km.

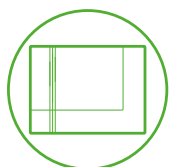
Viper™ virtualised enterprise RAN platform

The E40 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
- As A Service deployment models, including core network integration, AP deployment, and network operation.



E40 nanoLTE AP



E-class Enterprise Access points are designed for midsize and large enterprises, providing flexible in-building mobile coverage and capacity.

E40 nanoLTE Access Point

LTE radio

- 2 x 2 MIMO, 125mW per port
- 5 / 10 / 15 / 20 MHz channel bandwidths
- Local Area Base Station class
- Integrated detachable SMA antennas

LTE services

- Up to 16 active users
- Up to 75/25 Mbps depending on the bandwidth configured
- VoLTE or CSFB to GERAN/UTRAN for voice
- Warning system broadcast - CMAS and ETWS supported
- Full GBR and non-GBR support with QoS aware scheduler

LTE 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
S1-based

Interfaces

- S1 (S1-Flex via gateway)
- Uu LTE air interfaces to standard LTE UEs

Band Options

- FD-LTE (US Bands) 2, 4, 13, 17
- FD-LTE (EU / other) 1, 3, 7, 20
- FD-LTE (EU / other) 3, 7, 8, 20

Network Listen

LTE and 3G 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
- Secure boot and code signing

Environmental & physical

- Dimensions 266 x 202 x 41 mm
- Temp. range 0° to 45°C
- Operating 10 to 70% non-condensing
- Ingress protection IP40
- Mounting Wall Mounted

Viper™ end-to-end small cell platform

