



## INTRODUCTION

The Baicells Local EPC (BaiEPC) solution is for operators who want to run a private network version of the LTE EPC instead of using the Baicells CloudCore EPC. Local EPC provides the essential LTE core network functions:

- Mobility Management Entity (MME)
- Home Subscriber Server (HSS)
- Serving Gateway (SGW)
- Packet Data Network Gateway (PGW)
- Policy & Charging Rules Function (PCRF)

Deploying a BaiEPC gives operators full control of their E2E Baicells network elements, making it possible to customize services or localize deployments for multiple regions. The product is an all-in-one platform which conforms to 3GPP telecommunications standards for efficient network integration.

The Local EPC Professional platform is designed for larger sized networks or for customers requiring High Availability (using a second server for redundancy and software hot standby). The Professional supports up to 200 eNodeBs (eNBs) and 20,000 subscribers. Layer 2 via VxLAN and/or GRE tunneling is included.

The Local EPC Professional server comes with a three-year warranty from the manufacturer. The Local EPC product requires the use of Local OMC+BOSS to manage the network elements and subscribers, which is part of the bundled package. The Local OMC+BOSS product is also sold separately.

## FEATURES

### Mobility Management

- Attach/detach/idle
- Paging
- X2, S1 handover
- Tracking area update

### Session Management

- Default bearer management
- Dedicated bearer management
- Multiple PDN connections (up to 4 per UE)
- QoS

### Networking Functions

- Static and dynamic IP address allocation
- E2E Layer 2 solution (with Baicells UEs)

### Policy & Charging

- IMSI/APN based PCC rules
- Offline charging

### OAM

- Local management Web GUI
- Northbound APIs for OMC & BOSS

### Performance

- Supports up to 200 eNBs
- Supports up to 20,000 subscribers

## SERVER HARDWARE SPECIFICATIONS

Type	Dell R740 or similar
CPU	2CPU/Intel 3106, 8C8T, 1.7G *2
RAM	32G DDR4 ECC (16*2)
Max RAM	384GB
Hard Drive	2.5" 1T*2
RAID	H730P+
Rack Size	(2) Local EPC servers, each 2 RUs; plus (1) Local OMC+BOSS server, 2 RUs
Ethernet Ports	4*GbE RJ45, 4*10G SFP+
Power	1100W AC Redundancy AC/1100W DC Redundancy DC
Throughput	16 Gbps
Weight	~64 lbs/29 kg (R740) per server
Server Warranty	3 years

To order Local EPC Professional or for information on customization, please contact sales\_na@baicells.com.

### Local EPC Professional



### Redundant Local EPC Professional



### Local OMC+BOSS

