Local EPC Standard

BAICELLS

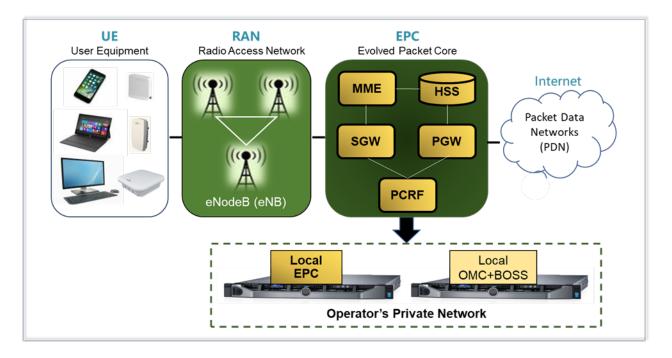## INTRODUCTION

The Baicells Local EPC solution, or BaiEPC, 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 Standard platform is designed for small to mid-sized networks, and supports up to 50 eNBs and 5000 subscribers*. Optionally, you can add Layer 2 capabilities for VxLAN and/or GRE tunneling.

The Local EPC Standard server comes with a two-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.

*NOTE: For large networks or for customers who require High Availability (using a second server for redundancy and software hot standby), refer to the Local EPC Professional data sheet.

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 50 eNBs
- Supports up to 5000 subscribers

SERVER HARDWARE SPECIFICATIONS

Type	LANNER NCA-2510C or similar
CPU	Atom C3758,8C8T 2.2GHz
RAM	16G DDR4 ECC（16*1）
Max RAM	64GB
Hard Drive	2.5" 1T*2
RAID	LSI
Rack Size	1 RU for Local EPC server and 1 RU for Local OMC+BOSS server bundle
Ethernet Ports	4*GbE RRJ45, 4*10G SFP+
Power	150W AC ATX Single PSU/300W DC ATX Single PSU
Throughput	4 Gbps
Weight	~20 lbs/9 kg (NCA-2510) per server
Server Warranty	2 years

PART NUMBERS / OPTIONS

BAICELLS-EPC-L2-BUNDLE	Standard EPC+OMC+L2 (standard license package of 20 eNBs+2000 subs). Initial Commissioning & Support must be purchased.
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To order additional licenses, or for information concerning Local EPC Professional or customization, contact sales_na@baicells.com.

Local EPC Standard

Local OMC+BOSS