

# EasyCell series

Product Leaflet



siae microelettronica

## SmallCells Backhaul Complete Solution



The need of high capacity connectivity in the urban area is a new requirement brought in Mobile networks by the introduction of 4G/LTE small cell. Densification and geographical distribution at street level of the access points is characterizing the need for a new backhauling model.

EasyCell is a family of products comprising of sub 6GHz solutions, ptp and pmp connectivity, with True-NLOS smart antennas, millimetre wave (V band) 60GHz ptp high capacity links, and a MEF 2.0 aggregation gateway offering the best solutions tool box to address the the urban canyon connectivity challenge.



# SMALL CELLS BACKHAUL SOLUTION

EasyCell Series is the ideal set of solutions for Small Cells Backhauling, in dense urban areas, in extremely interfered scenarios (concurrent carriers as well as 5 GHz "Wifi polluted" environment) and in tough propagation conditions (i.e. partial or complete NLOS), providing in each case connectivity with 100% carrier grade performances.



EasyCell family includes:

- EasyCell60, V-band (60 GHz) millimeter wave radio link
- EasyCell-NT, Sub6 (2.6 GHz, 3.5 GHz and 5.4-5.8 GHz) solution
- EasyCell Gateway, MEF 2.0 Ethernet aggregation equipment



## MAIN CHARACTERISTICS

### EasyCell60

- 1.0 Gbps full duplex - FDD
- 500 MHz FDD channel BW
- QPSK-8PSK ACM
- Full Carrier Ethernet protocol stack
- Synchronous Ethernet and IEEE 1588v2 TC support.
- 35W reduced consumption, POE+ (802.3at)

### EasyCell-NT

- Smart Antenna with Beamforming and nullforming
- Up to 400 Mbps aggregated throughput per link
- 10 to 40 MHz channel bandwidth
- OFDM (256 QAM ACM on each sub-carrier)
- PtP and PMP applications. PMP link capacity independent on the number of End Nodes

### EasyCell Gateway

- Indoor and Outdoor casing
- Up to 4x PoE ports + 2 SFP ports
- POE++ up to 80W each, with Max 150W load
- Integrated voltage up-converter on PoE ports for maximum cable reach
- Synchronous Ethernet and IEEE 1588 v2 support
- MEF2.0 fully compliant

## TYPICAL APPLICATIONS

### EasyCell60

- Small Cell Backhauling street level deployment
- 4G-LTE Mobile Backhaul leaf connectivity
- Last Mile fiber extension
- Enterprise, leased lines, intracampus connectivity

### EasyCell-NT

- Small Cell Backhauling street level deployment
- True-NLOS scenarios
- Emergency wireless links
- Offshore application
- Complementary solution to fiber build in dense areas

### EasyCell Gateway

- Multiple any F.O. PoE powered units aggregation (not limited to EasyCell Series)
- SmallCells Backhaul aggregation unit
- MacroCell Network interworking element
- DCN demarcation device



MEMBER OF:



COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001:2015 =

Pulse Supply

909 Ridgebrook Road., Sparks, Maryland 21152, USA

TEL : +1-410-583-1701 FAX : +1-410-583-1704

E-mail: sales@pulsesupply.com <https://www.pulsesupply.com/siklu>