

# ALFOplus80 series

Product Leaflet



siae microelettronica

## 2.5 Gbps E-Band Full Outdoor

Whether in mobile, fix or private networks, the E-band millimetre wave represents a new fundamental technology tool bridging the gap between fibre high capacity systems and flexible cost effective wireless transmission.

Fibre like capacity, highest deployment flexibility and homogeneous operational behaviour as traditional microwave, allow operators to fully liaise on existing knowledge and skills, minimizing the introduction costs, while modernizing the transport network.



Siena, Italy

# MILLIMETER WAVE RADIO



ALFOplus80 is a Full-Outdoor, full IP Next Generation Millimeter wave radio operating in the E-Band (71-76 GHz - 81-86 GHz).  
ALFOplus80 is the ideal solution for ultra high capacity wireless links in urban environment for all carrier-class applications: mobile backhaul, front haul, enterprise, ISP.



## MAIN FEATURES

- Up to 2.5 Gbps Throughput
- Channel bandwidth from 250 to 1000 MHz
- BPSK/4/16/64 QAM modulation schemes
- Hitless Adaptive Coding and Modulation
- Full Carrier Ethernet protocol stack
- AES Encryption
- Power Over Ethernet
- Gigabit Ethernet and STM-1/E1 interfaces
- InBand and OutBand Management
- Layer 1,2,3,4 Header Compression (up to 200% throughput improvement)
- SM-OS based platform
- "Fibre Mode" operation for 2xGigabit
- Packet Fragmentation to minimize jitter
- Synchronous Ethernet and IEEE 1588v2 support
- CISCO Microwave Adaptive bandwidth feature interworking

## LAYER 2 MAIN FUNCTIONALITIES

- MEF 2.0 Carrier Ethernet Services
- Complete VLAN management
- Per VLAN flexible ingress Policer (CIR & EIR definition)
- Color-Aware Classification
- Programmable queues length
- Jumbo Frames up to 10Kbytes
- Flexible QoS definition based on VLAN, IPv4, IPv6, MPLS exp bits
- Support for G.8032 based rings
- RMON Statistics

## TYPICAL APPLICATIONS

- Any-G Mobile Backhaul for Access and aggregation
- CRAN, CPRI front haul 2.5 Gbps
- Last Mile fiber extension for business customers
- Emergency wireless links
- Complementary solution to fibre deploy

Radio Access migration towards full packet technology is boosting demand for All Outdoor microwave equipments. AGS20 enables this move by providing:

- Connectivity towards ALFOplus and ALFOplus80 series
- 2.5 Gbps optical interface
- Single Network Element concept towards NMS
- Power over Ethernet and integrated lightning protection to direct feed All Outdoor equipments
- TDM connectivity

