

WIRELESS PRODUCT PORTFOLIO

SHORT CATALOG

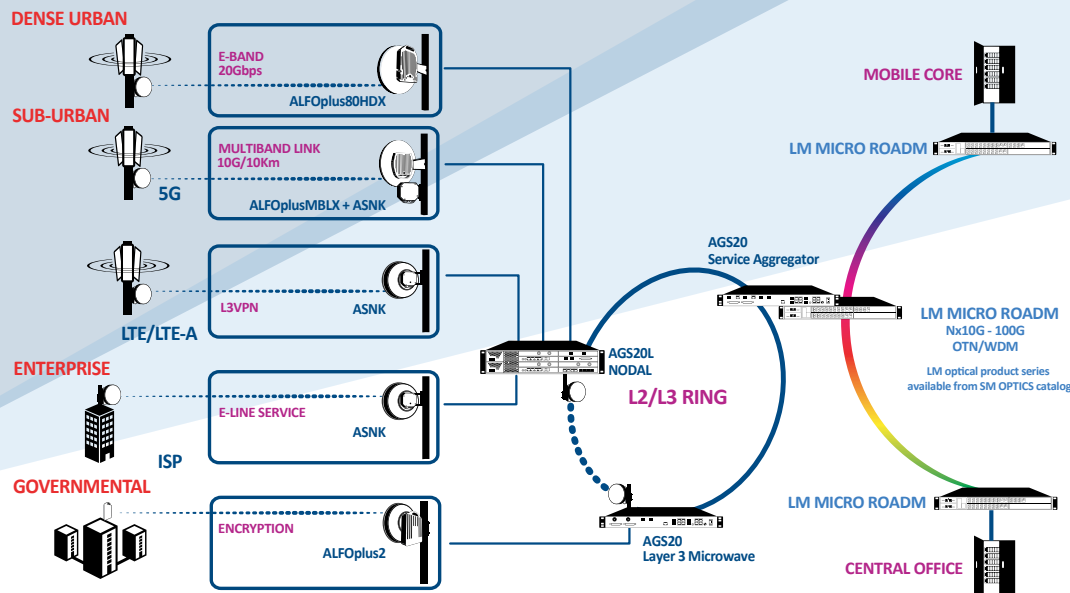


siae microelettronica

MICROWAVE RADIO LINKS PORTFOLIO

State-of-the-art microwave radio complete portfolio including split mount, full outdoor and all indoor systems across traditional licensed bands and millimetre wave, supporting MEF, IP/MPLS and SDN protocols and a multi-platform comprehensive NMS. Our R&D Department is structured to be extremely proactive in the development, customisation, and introduction of new products with the lowest time-to-market combined with the highest Quality Production Standards.

PRODUCT APPLICATION



FULL OUTDOOR

ALFOplus

High Capacity IP Ethernet Full Outdoor

ALFOplus combines compactness, best in class performances and lowest power consumption in a single efficient and cost effective full outdoor device. It offers up to 1Gbps transport capacity also liaising over higher modulation schemes of 1024 QAM.



ALFOplus

ALFOplus2 / ALFOplus4

The RF Multicore Solution

ALFOplus2 is the next generation 2/4 Gbps full outdoor solution providing best TCO by boosting capacity and availability of the network and simplifies installation with fully integrated branching and zero indoor footprint. With its unmatched spectrum efficiency and larger channel selection (single 14 MHz up to 2x112 MHz channels) it offers highest the capacity and channel flexibility, with no restriction in channel allocations either adjacent and copolar, with the best performances in class system gain.

ALFOplus4 is the new flagship Full Outdoor adding up to 8-core radio architecture, designed for ultra-high-power application, up to 4 x 224 MHz channels, with integrated XPIC and Carrier aggregation capability achieves up to 8Gbps.



ALFOplus2



ALFOplus4

ALFOplus80HDX / ALFOplus80E

E-Band Full Outdoor up to 20 Gbps

Whether in mobile, fixed or private networks, the E-band millimetre wave solution represents a fundamental technology tool bridging the gap between fibre high capacity systems and flexible cost effective wireless transmission. **ALFOplus80HDX** achieves 10 Gbps full-duplex ultra high capacity in a single unit and 20 Gbps in a 2+0 XPIC configuration. Enabler of multi band solution in full outdoor or split mount scenario.

ALFOplus80E add at up to 26dBm output power with multi 10G line interfaces and up to 1024 modulation scheme, configuration in pure E-Band or in multi-band link.



ALFOplus80HDX



ALFOplus80E

SPLIT MOUNT

AGS20

AGS20 is a fully integrated single box solution. It offers a complete range of interfaces: Radio, 10/2.5/1 Gigabit/Fast Ethernet, E1 both native and pseudo wire and STM-1. AGS20 can support up to four IF interfaces, allowing the set up a four direction nodal solution in a single rack unit IDU, or Radio LAG over 4x ODUs, with best cost/performance relationship. AGS20 minimizes space consumption without renouncing to functionalities.



AGS20 | integrated single unit

AGS20A

AGS20 A is the new compact IDU optimized for multiband application, providing up to 10Gbps radio aggregated capacity to the transport network and an extended set of line interfaces. Its compact structure matches the requirement to have operational and maintenance simplicity.



AGS20A | integrated single unit

AGS20M

AGS20M is a split-mount edge node that provides up to 2x10Gbps radio aggregated capacity to the transport network. It is available in two structures, Compact or Modular, matching any customer requirement.

The Compact variant matching the requirement to have operational and maintenance simplicity, while Modular to maintain low the total cost of ownership (TCO) and giving you the possibility to expand the node with more interfaces (radio or line) to meet the growing demands of your network.



AGS20M | integrated unit with single drawer expansion slot

AGS20L

AGS20L has a fully modular architectural design, addressing dense scenario applications where multiple directions, high capacity aggregation and convergence over the optical network are a need. AGS20L aggregates traffic incoming from multiple IF based ODU and Ethernet based full outdoors, all feeding into a single node. Its modular design offers full redundancy (no Single Point of Failure) regardless of the radio configuration, improving resiliency of aggregation and backbone sites.



AGS20L | 2RU - 8 modular slots

AGS25M

Advanced multi-band & aggregator platform that flexibly addresses the different RAN generation needs over a common wireless transport infrastructure, securing all foreseen use cases which are enabled by 5G.

AGS25 provides the highest node capacity in the smallest form factor, with high performance carrier Ethernet and IP/MPLS engine, with multiple 1/10/25 Gbps ports ensure deployment flexibility and future-readiness, while maintaining full support of the legacy traffic E1 services.



AGS25M | 4IF

ASNK ODU series

ASNK ODU family supports all modulation schemes up to 4096 QAM and radio bandwidth up to 112Mhz granted capacities from 8 Mbit/s to 1000 Mbit/s. The ODU product family ranges from the most compact units with <2L volume and 10W power consumption, to the ultra high power version for extended performances and Dual / Quad Carrier version supporting up to 4 carrier configuration for 4 Gbps transport capacity in a single unit.



ASNK / ASNK D Dual Carrier



ASNK Q Quad Carrier

SPLIT MOUNT

ALFOplus80MBLX series

Multi-band booster up to 20 Gbps

ALFOpus80MBLX series achieves 20 Gbps full-duplex ultra high capacity in a single unit with the highest power transmitted available in the market bridging the gap between fiber high capacity systems and flexible cost effective wireless transmission. Fiber-like capacity, highest deployment flexibility unifying the product architecture for traditional bands and E-band, allowing operators to fully liaise on existing knowledge and skills, minimizing introduction costs, while modernizing the transport network renouncing to functionalities.



ALFOplus80MBLX



ALFOplus80MBLX2

AGS20L Trunk

The AGS20L Trunk for long haul applications shares a common IDU and cards with the metro short haul platform and is enriched with new high power dual carrier ODUs for trunking applications. It offers an homogeneous solution for operators and private networks owners to span from short haul to long haul application with a single product family, to extend optical transport networks in critical areas or to satisfy the stringent requirement of power utilities, transportation and public safety.

The platform enables convergence of the major microwave applications thanks to a modular configuration for evolving complex sites, aggregation of IF radio for long-haul applications and Dual OBU arrangement.



ASNK DFL | AGS20L Trunk ODU
outdoor and indoor versions

MANAGEMENT SOFTWARE



NMS5

Element and Network Manager

- On-premise and in the cloud installation
- Scalable from small to large network
- Web User Interface
- L2/L3 Service Manager
- OSS Integration
- High Availability

SM-DC

SDN Microwave Domain Controller additional functionalities to NMS5:

- NETCONF Southbound interfaces
- RESTCONF Northbound interface
- YANG model ONF-ETSI-IETF

SM-Apps

Control, Optimize, Automate and Upgrade SDN applications

- Root cause analysis with AI and Machine Learning algorithm
- Network optimization with performance Analytics
- Real time network awareness with automatic discovery
- Preventive maintenance
- Energy Efficiency

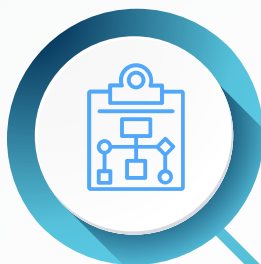
PLAN AND DESIGN

From Network Design to advanced **Network Transformation Services**, SIAE MICROELETTRONICA bring 60 years extensive experience in designing telecom networks and delivering solutions in the transport domain.



MAINTAIN AND SUPPORT

In SIAE MICROELETTRONICA we CARE about your network with full range of **24/7 Technical Support** and **Software Maintenance Services** to protect telecom assets and assure networks are efficient, protected and fully operational.



INTEGRATE AND DEPLOY

You can benefit of SIAE MICROELETTRONICA's wide experience in **Network Implementation** to plan and integrate networks successfully. From **Site Engineering Services** to **Turn Key Project Delivery** learn more about our comprehensive set of roll out services and System Integration.



OPTIMIZE AND EVOLVE

SIAE MICROELETTRONICA's **iVeritas Solution** offers a valuable and holistic approach in **Network Assessment and Performance Optimization** delivering solutions able to revamp and maximize network performance keeping budget under control.





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