

Our experience, your advantage

ALFOplus80MBLX SERIES

Multi-band booster up to 20 Gbps

Whether in mobile, fixed or private networks, the E-band millimeter wave solution represents a fundamental technology tool bridging the gap between fiber high capacity systems and flexible cost effective wireless transmission. ALFOplus80MBLX achieves 20 Gbps full-duplex ultra high capacity in a single unit with the highest power transmitted available in the market.

ALFOplus80MBLX provides 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.



ALFOplus80MBLX



ALFOplus80MBLX2

UNIVERSAL PRODUCT ARCHITECTURE

Millimeter wave radio products have evolved in terms of functionality and physical arrangements to cover in an effective and efficient way all the different applications.

ALFOplus80MBLX Series, as part of the SIAE MICROELETTRONICA Unified Product Architecture, utilizes at its core the SM-OS operating system based over three major components:

Network Management Plane

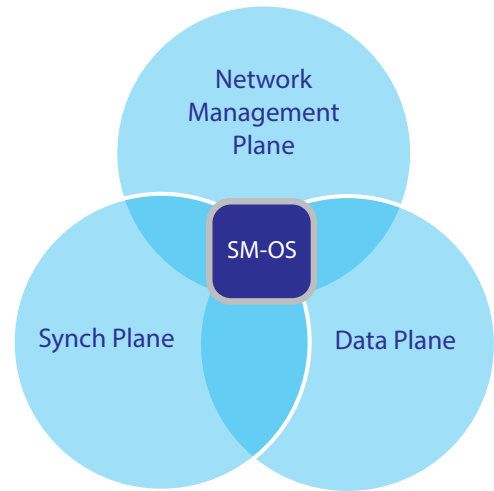
- NETCONF/Yang in SDN deployment
- SNMP v3, HTTPS, SSH, SFTP
- RADIUS/TACACS+ for centralized user management

Data Plane

- MEF – Carrier Ethernet Services
- IP/MPLS – L2/L3 VPN Services
- QoS/HQoS – queue management/policing and shaping

Synch Plane

- Synchronous Ethernet
- ITU-T G.8275.1 Profiles (T-BC)
- 1 PPS in/out port



MAIN FEATURES

- SM-OS based platform
- Ultra High Power, up to 26 dBm
- Up to 20 Gbps throughput with single unit
- Integrated XPIC circuitry
- Channel bandwidth up to 2000 MHz
- BPSK/4/16/64/128/256/512/1024 QAM modulation schemes
- Hitless Adaptive Coding Modulation and Bandwidth
- Integrated flat antenna (ETSI only)
- AES128/256 Encryption
- L1 link aggregation
- Redundant power feeder connector
- Multicarrier aggregation (split-mount with AGS20 ODUs)
- Network Management System: NMS5
- SDN Microwave Domain Controller: SM-DC
- Manage as Single Network Element by AGS20 IDUs

Supported Configurations:

- 1+0 (10 Gbps), pure E-band or in multi-band link
- 2+0 XPIC (20 Gbps), pure E-band or in multi-band link

LAYER 2 MAIN FUNCTIONALITIES

- MEF certified
- 8 queues with flexible scheduler (Strict Priority, WRR and mixed)
- 4 levels hierarchical scheduler (H-QoS)
- Flexible QoS definition based on VLAN, IPv4, IPv6, MPLS exp bits
- Per queue WRED congestion avoidance
- Flow Based Ingress Policing (CIR & EIR definition)
- Egress shaping
- Ethernet Ring Protection G.8032
- RMON statistics per service VLAN stacking (IEEE 802.1ad QinQ)
- Link aggregation IEEE 802.3ad
- Ethernet OAM 802.3ah/ 802.1ag/ Y.1731
- Jumbo frames up to 12 Kbytes