

ALS Series



ALS Series is a carrier-grade wireless backhaul split mount solution, “fully programmable” broadband wireless system designed to meet any medium & high capacity transmission needs. It includes a wide type of interfaces: E1, STM-1, Gigabit Ethernet and PWE3 options, all available in unprotected, protected HSTBY, SD or FD with embedded proprietary XPIC technology. Each single IDU can be configured as protected, unprotected or 2+0. The Nodal IDU can aggregate, in a real “pay as you grow” approach, up to 16 independent directions and manage them as a single network element.

SIAE MICROELETTRONICA produce ODUs with Best-in-class system gain throughout the frequency bands and adopt the latest technological developments capable of achieving the highest MTBF figures and the lowest power consumption available on the market.

MAIN FEATURES

- FREQUENCY BANDS: 4 GHz → 42 GHz. ETSI standards
- MODULATION SCHEMES: from 4QAM up to 1024 QAM ODU solutions.
- TECHNOLOGIES: Base-Band high circuit integration MCICS
- CONFIGURATIONS: HSTBY, FD, SD, N+0 (N<8)
- TDM CAPACITY RANGE: upto 4xSTM-1 and upto 160xE1
- ETHERNET THROUGHPUT RANGE: 4 Mbit/s → 2 Gbps
- ADVANCED DSP : Channel Digital Pre distortion , Equalizer and Packet Header Compression
- TRIBUTARY INTERFACES: Nx E1, NxSTM-1, PWE3, FE/GE electrical/optical
- SYNCRONISATION OPTIONS: E1, STM-1, SyncE, PWE3 recovery clocks (adaptive,differential), 1588v2 Support
- ARCHITECTURES: Dual Native TDM and multi gigabit Ethernet in Modular and Single Board Compact form factor.
- OUTDOOR ARRANGENTS: External or integrated low profile, high performance antenna systems
- SPECTRUM ARRANGEMENTS: ACAP, ACCP, XPIC

- NODAL CAPABILITY: Up to 16 independent directions for a unique “pay as you grow” nodal approach.
- MANAGEMENT OPTIONS: Linux or Unix based NMS, HTML based local access (no flash needed)

MAIN APPLICATIONS

ALS Series provides Native IP and NativePDH and SDH connections; it is the ideal solution for a wide range of applications in access and backbone networks, covering any market segment ranging from cost-sensitive applications to advanced network implementations in which high capacities, complex protection schemes and excellent reliability are mandatory.

- 2G / 3G / LTE Cellular Network
- 10/100/1000 Mbit/s Ethernet connections SDFsd
- Utility Networks (Railways, Pipelines, Utility Radios etc.)
- Back-up transmission medium to Fibre Optic links
- Spur Links for Backbones/Rings
- Last Mile Fibre Extension
- Leased Line Replacement
- Private Data Networks (WANs, LANs,
- SDH Radio Ring Deployment up to 4xSTM-1
- Infrastructure > High Capacity Broadband Access Networks