Sagemcom

SLF

DIGITAL RADIO RELAY SYSTEM

- Ethernet interface : GE and FE with QoS
- PDH interfaces : E1, E3
- SDH intertaces : STM1
- Flexible and modular architecture with ODU compatible for all configurations and capacities

SLF : DIGITAL RADIO RELAY SYSTEM

SLF is a digital radio relay system designed to meet the needs of a continuously evolving networks market and guarantees quality and reliability for short and medium distance point-to-point links. SLF enables rapid and cost-effective connectivity for carriers, both in the cellular and fixed operator markets, but also for private networks and enterprises.

SLF consists of :

• SLF-N for low to medium capacity application. It offers the possibility to multiplex several E1 and a FE interface and to configure the capacity and the number of E1 by software.

• SLF-H for medium to high capacity application (up to 900 Mbps in 2+0). SLF-H multiplexes several E1 and an innovative GE interface. Thanks to an integrated Ethernet switch, with advanced quality of service, 4 Ethernet ports, and a large number of E1 multiplexer (up to 80 E1 software programmable), this product is particularly adapted to follow the migration from 2G to 3G and LTE, but also allows connectivity of different services: 2G, 3G, Wimax, digital TV

• SLF-A for SDH application. It allows transporting 1 or 2 STM1 in a single channel and the double in 2+0 configuration.

• Same ODU for all applications and capacity (PDH, SDH and Ethernet) reducing OPEX when total capacity of the network shall be increased.

TECHNICAL FEATURES

• Very compact OutDoor Unit (ODU) compatible for all configurations (1+0 and 1+1), all capacities

• Same InDoor Unit (IDU) for all frequency bands

• Ethernet throughput and number of E1 fully programmable with the SL PILOT software

• Ethernet switch compliant with MEF standard

• Efficient modulation : QPSK to 256QAM associated to Adaptive Modulation

• Adaptive modulation algorithm selects the best modulation according to the condition of propagation. This feature allows reducing CAPEX using smaller antenna and improving availability of Ethernet link

• High Tx Power allows to reduce cost of link using smaller antennas

• XPIC algorithm allows to double the capacity in a same channel bandwidth

• ATPC (Automatic Transmit Power Control) with large dynamic of Tx power eliminates the need for fixed attenuators and allows to reduce the level of interferer

• The impedance of the E1 tributaries can be set to either 75 or 120 Ohm by the software

• IONOS NMS is a common management platform for all transmission equipment from Sagemcom (Radio, Copper and Optic)

• Speed and ease of installation Thanks to the user-friendly software SL PILOT, and the integrated installation tools, such as analysis of received spectrum, the installation and commissioning of the link are easier, and at the same time link availability is improved and operational cost are minimised

• The low power consumption of SLF terminals and the compactness of the IDU enable the integration in a majority of BTSs and Node B

• Standard SNMP Network Management Interface allows SLF to be managed by an external Network Management System

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