

# TL series

Product Leaflet



saie microelettronica

## TL Trunk Link IP & Hybrid

It's an IP & hybrid high capacity microwave radio system designed for trunk, long haul links. Thanks to its multiple channels it offers the right solution for high capacity wireless transport infrastructure.

Suitable in multiple applications, from wireless backbone, spur and fibre back-up, reaching critical locations giving connectivity over water and over mountains that other transport media would fail to reach.



# MICROWAVE RADIO



TL is available in all frequency bands from 4 to 13 Ghz with up to 16 STM-1 or 4 Gbits capacity, in N+1 or N+0 & M+1 or M+0 configurations. In addition, for IP applications a L2 switch is embedded in the equipment.

## MAIN FEATURES

- N+1 or N+0 mixed configuration ACCP/ACAP/CCDP with SD (space diversity) & TSD (transmit space diversity with up to 16 channels) support in a single rack
- Full set of countermeasures against fading in order to maximize system performance
- 2.048 Mbit/s wayside traffic and 64 kbps digital service channels
- 1.554 Mbit/s wayside traffic
- Fixed or Adaptive Code Modulation Technique 4/16/32/64/128/256/512 QAM
- STM-1 and Gigabit Ethernet (GE) electrical or optical interfaces are available with any mix of combinations
- Easy on-site test and management without measuring instruments:
  - automatic IF-IF response adjustment
  - automatic SD DADE adjustment
  - automatic baseband DADE adjustment

## LAYER 2 SWITCH FUNCTIONALITIES

- Native IP radio
- VLAN Management
- Spanning tree (STP/RSTP)
- Ethernet QoS (IEEE 802.1p/ToS/DSCP)
- Link aggregation (L1)
- Traffic Shaping

## TYPICAL APPLICATIONS

- 2G/3G/LTE Cellular Network infrastructure
- backup transmission medium to fiber optic links
- High capacity IP Radio Rings
- Wireless backbone for all regional and national networks

## TRMD Main signal transmission unit

A high integration level to package in the TRMD; the Transmitter (TX), Receiver (RX), Mo-demodulator and base band functions.

The one rack chassis can host up to 16 bidirectional RF carriers.

Minimization of frequency dependent spare parts has been achieved through the use of wide-band units.

Easy operation and maintenance: no adjustment or provisional settings are required.



## TL compact

TL compact available in all frequency bands from 4 to 13 Ghz (IT-R, FCC, NTIA) is the ideal solution for a wide range of applications in access networks and backbone areas. The TL compact solution provides up-to 4 RF carriers per cabinet (3+1 / 4+0), optimizing the costs.

With an IP55 weather hardened cabinet, it is possible to address a full outdoor installation, close to the antenna reducing the waveguide losses and potentially removing the dehydrator that results in a better TCO.

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