Ace-it with the ACE technology

WipAir ACE

1000 Mbps Point-to-Point wireless solution

ACE capacity – 1000 Mbps net throughput
ACE technology – 256QAM & 80MHz channel bandwidth
ACE stability – Unrivaled interference immunity via WipAir’s AIS technology and cutting-edge Adaptive Bandwidth & Coding & Modulation
### Specifications

**Radio**

- **Radio Frequency**: 4.8-6.1 GHz
- **Net Throughput**:
  - 3x3 MIMO - up to 1000 Mbps, dynamic asymmetric
  - 2x2 MIMO - up to 700 Mbps, dynamic asymmetric
- **Channel Size**: Automatic or configurable – 5 / 10 / 20 / 40 / 80 MHz
- **Waveform**: Advanced OFDM 2x2 & 3x3 MIMO
  - Modulations – BPSK, QPSK, 16QAM, 64QAM, 256QAM
- **Output Power**: Configurable up to 30 dBm
- **Range**: More than 120Km
- **Handling Interference**:
  - AIS - Automatic Interference Sensibility
  - AB&CM - Adaptive Bandwidth & Coding & Modulation
  - ACS - Automatic Channel Selection
  - FEC - Forward Error Correction, \( k = \frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6} \)
  - ARQ - Automatic Retransmit Request

**Encryption & Security**

- 128-bit AES & MAC level authentication

**Networking and Management**

- **Topology**: Point-to-Point (PTP), Point-to-Multipoint (PTMP) - software configurable
- **Access Technology**: Time Division Duplex (TDD) & Time Division Multiple access (TDMA)
  - dynamic or symmetric
- **Data Latency**: 1ms typical per SU
- **Jumbo Frames**: Supported
- **Network Modes**: Layer 2 Bridge, VLAN, QinQ, VLAN / broadcast / IP filters, DHCP server
- **QoS and SLA**: Per SU - MIR/CIR/BE/CRB and 8 priority queues - 802.1p, TOS and DSCP
- **Management**: ViewAir NMS, Cloud NMS, WEB, SNMP, Telnet, NBI CORBA, EMS (Link Manager), Built in RF Analyzer and path profiling tools

**Physical and Environmental**

- **Physical Interface**: 2x 10/100/1000 Base-T (ODU)
- **Connecter Type**: 2x RJ-45
- **Dimensions and Weight**: 19 x 19 x 4 cm, <1Kg (connectorized)
- **Power**: Power over Ethernet (PoE) - 48 VDC
  - **PoE Adapter**:
    - AC-DC: Input: 100-240 VAC, 47-63 Hz; Dimensions: 12 x 6 x 3.5 cm
    - DC-DC: Input: 10-60 VDC; Dimensions: 16 x 6 x 3 cm
- **Power Consumption**: <10Watt
- **IP Rating**: IP67
- **Operating Temperature**: -40ºc to 60ºc
- **Operating Humidity**: 100% non condensing (Rainproof)

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**About WaveIP**

WaveIP is the technology leader of Point-to-Point and Point-to-Multipoint Broadband Wireless solutions in the sub-11 spectrum, founded in January 2000.

WaveIP solutions are perfect for IP & cellular backhauls, video surveillance and security networks, enterprises and municipality networks and business grade broadband access services.