WinLink 582

- WinLink 582 enables incorporates automatic power controls allowing easy and fast installation.

- The unique capabilities of WinLink 582 to transport both TDM stream and IP traffic over the air makes it ideal for a variety of applications:
  - Corporate campus LAN and PBX connectivity
  - Branch office LAN and PBX connectivity
  - Last mile wireless access to SOHO and SME customers
  - Cellular BTS to BSC backhauling.

DESCRIPTION

- WinLink-582, point-to-point multiplexer aggregates E1/T1 and IP traffic over 2.6Mbps full duplex wireless link, extending data/voice transmission for up to 16 km (10 miles).

- Hybrid TDM/IP platform supports legacy E1 equipment and services alongside with emerging IP applications.

- Operation over 5.8 GHz bands offers high capacity point-to-point transmission in regulated licensed bands and therefore providing better QoS. Operation over 5.8 GHz bands is not affected by harsh weather conditions, such as fog, heavy rain and does not require license.

- WinLink-582 employs Direct Sequence Spread Spectrum technology combined with powerful Forward Error Correction to ensure highly reliable and secure connection.
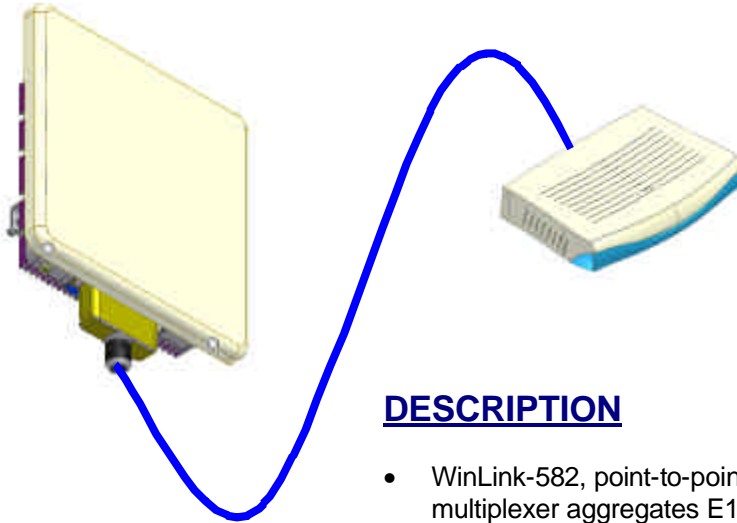
- Time Division Duplex technology

FEATURES

- Wireless point-to-point multiplexer operating at 5.725 – 5850GHz

- Combines TDM and IP traffic over 4 Mbps full duplex wireless link

- Supports transmission over ETSI bands with the range of up to 16 km (10 miles)

- Provides highly reliable and secure connection by using DS spread spectrum Technology

- Extensive diagnostics, including loopbacks, pinging utility and LED indications

- Easy to install

SPECIFICATIONS

WIRELESS LINK
- **Frequency Range**
  - 5.725-5850GHz

- **Frequency Band**
  - 10MHz

- **Capacity**
  2.6 Mbps, full duplex

- **Tx/Rx Channel Separation**
  Time Division Duplex (TDD)

- **Carrier Step Resolution**
  1 MHz

- **Modulation**
  DS-Spread Spectrum/QPSK

- **FEC**
  Convolutional, rate = ½

ANTENNA CHARACTERISTICS
- **Type and Polarization**
Integrated flat panel, vertical
- **Gain**
20 dBi
- **Beam Width**
Azimuth/elevation: 9°, directional
- **Compliance**
EN203-085 V1.1.1 (TS-3)
- **Transmitter Output Power**
16.7 dBm max
- **Receiver Noise Figure**
9 dB
- **Receiver Sensitivity**
-86 dBm at BER 1E-8

LAN INTERFACE
- **Physical Layer**
10/100BaseT, autosensing
- **Framing/Coding**
IEEE 802.3/U
- **Traffic Handling**
MAC layer bridging, self-learning
- **Line Impedance**
100Ω
- **VLAN Support**
Transparent, as per 802.3q
- **Data Rate**
4 Mbps max
- **Range**
100m (328 feet) max
- **Connector**
RJ-45

E1/T1 INTERFACE
- **Physical Layer**
G.703 E1/T1
- **Framing**
  - E1 G.704, framed (n× 64 kbps) or unframed (transparent)
- **Timing**
Plesiochronous, independent Tx and Rx timing
- **Delay**
30 msec round trip
- **Line Impedance**
  - E1: 120 , balanced
  - T1: 100 , balanced
- **Number of Ports**
One or two (optional)
- **Connector**
RJ-45

GENERAL
- **Accessibility**
Local or remote
- **Configuration**
  - Radio channel selection for multilink installation
  - TDM service configuration and BW allocation
  - IP only service
- **Diagnostics**
Testing:
  - Local and remote loopbacks on the E1 interface
  - IP traffic pinging Performance monitoring
  - Receiver Signal Strength Indicator (RSSI)
  - Link quality (BER)

- **Upgrade Capabilities**
Local and remote software download
- **Power**
110/220 VAC, 50/60Hz

Power Consumption
25 W max
- **Physical (Outdoor Unit)**
Height: 261 mm / 10.2 in
Width: 261 mm / 10.2 in
Depth: 60 cm / 2.3 in
Weight 3.5 kg / 7.7 lb
Mounting: pole or wall
- **Environmental**
Outdoor unit:
Enclosure: all-weather case
Temperature: -30–60°C/
                -22–140°F
Indoor unit:
Temperature: 0–50°C/32 122°F
Humidity: Up to 90%,
                non-condensing
- **CE Markings**
  - Safety: ETSI EN 60950, ETSI EN 60529
  - EMC: ETSI EN 300 385
  - Radio: ETSI EN 301 753: V1.1.1 (2001-03)

APPLICATION

2.6 Mbps

16 km (10 miles)

N x 64 kbps

PBX

IP

WinLink-582

WinLink-582

N x 64 kbps

PBX

IP

LAN