# Trailblazer™ Phone Extender

# A multifunctional point-to-point digital radio providing POTS, leased lines and Ethernet data up to 512 kbps.



# The Trailblazer™ Phone Extender

Delivers a digital microwave radio for low teledensity rural POTS and data service. Configurable for up to eight, 64 kbps PCM voice channels with ranges up to 32 mi/50 km or more with repeaters. Features full fax and V.90 dial-up modem or Ethernet capability. 4-wire leased line configuration also available.

#### **TYPICAL APPLICATIONS:**

- Rural WLL Telecommunications
- Inaccessible or Environmentally Sensitive Lands
- Retrofit for Exhausted Wireline Systems
- Internet Café or Calling Centers
- Temporary & Emergency Restoration
- Video or Security Monitoring

# All **Trailblazer**™ models offer an unmatched set of features:

#### **Flexible and Programmable**

All *Trailblazer*™ models are bench or field programmable. Configure the bandwidth, allocate voice and data, use installation and antenna alignment aids, and diagnostic tools. All models support all Class features, fax, and V.90 dial-up modems, with DSL equivalent connectivity.

#### **Advantages Over Wireline**

All *Trailblazer*™ models deliver voice, data or both using state-of-the-art digital electronics and wireless links up to 32 mi / 50 km to provide network quality without the expense of right of way costs or wireline hard costs.

#### **Plug and Play Simplicity & Reliability**

All components, including digital radio cards, multiplexer, power supplies & CPU are fully integrated into the 3kg / 8lb waterproof enclosure that installs easily.

# **Easy Installation**

Terminals mount on a 1"- 2.25" pipe or pole and use an external antenna. Both ends have their own power supply and operate on 12 VDC, easily powered by solar. Programming with a GUI and your laptop completes the job.

# **Rugged & Weatherproof**

Terminals are housed in a NEMA 4X waterproof enclosure, built to last in tough climates. Mounts on most poles or pipes.

# No License Required, yet Private and Secure

Uses the license-exempt (in most countries) 2.4 GHz or 5.8 GHz frequency bands, while providing fully encrypted, spread-spectrum CDMA modulations for your privacy.



Up to 8 POTS or LL 8 Lbs. / 3.62 kg 13 x 11 x 6 inches 33 x 28 x 15 cm

### Low Power Draw, Solar Powerable

Point-to-Point systems draw low power and accept any DC Voltage from 12V to 24V. Solar powering kits available with up to 7 days of backup power.

# Trailblazer™ Series - Designed and Built for Plug-and-Play

# Specifications for *Trailblazer*<sup>™</sup> Phone Extender

System Specifications

BASE TERMINAL: 2.5W (Typical)

Supply Voltage - Filtered DC. 12V - 24V (32V max), Earth Ground Required, AC Adapter Available (100 - 260 VAC, 50 - 60 Hz)

Modulation Type BPSK (256 kbs) or QPSK (512 kbs) DSSS Receiver Sensitivity (10-6 BER) -93 dBm/256 kbps; -90 dBm/512 kbps

FXO Specifications

Balanced sinusoidal, 0.3B per line

24 dB (min)

EN55024, and TRB-21

FXO Specifications

Open Loop Voltage.....

20 mA (min) to 24 mA (max) 

Regulatory LSSGR, TR57, ITU Q.552, and G.712

User Data Interface

...... 10BaseT Ethernet or V.35 Data Port Interface . . . .

Maintenance Data Interface

Command Console Port

Environmental Specifications

Operating Temperature and Humidity.......30° to 60°C, 0 to 90% Non-condensing Exposure to the Elements (outside enclosure) . . . . . . . . . . . . NEMA 4X, Rain, Wind, and Ice Protected

Shock and Vibration ...... Mil Standard 810 D

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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