Trailblazer™ Star

A multifunctional point-to-multipoint digital radio providing POTS, leased lines and Ethernet data with 512 kbps and up to 4 CPE terminals.



The *Traillolazer* Star

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 in a multipoint configuration. 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.

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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*[™] Star

System Specifications

Product Description Digital Microwave Radio with POTS Leased Lines and 10 BaseT/V.35 Port

End-to-End System Latency..... Between 8.8 and 4.4 ms Depending on Speed Selected

CPE BASE: 2.5 W (typical)

BPSK (256) or QPSK (512kbs) DSSS

Receiver Sensitivity (10-6 BER)93 dBm/256 kbps; -90 dBm/512 kbps

FXO Specifications

Both resistive and reactive parameters can be factory set per country requirements

Balanced sinusoidal, 0.3B per line

24-110 Vrms, 17-34 Hz

24 dB (min)

Open Loop Voltage.....

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

User Data Interface

Data Port Interface

Synchronous Data Rate (kbps)..... 512/256/128/64, selectable from config. GUI Transmit data and receive data clocks generated internally

Will sync to an external clock on the master side for a "tail circuit" operation

Digital Latency, end to end < 4.5 ms

Maintenance Data Interface

Command Console Port. . . .

Environmental Specifications

Exposure to the Elements (outside enclosure) NEMA 4X, Rain, Wind, and Ice Protected

Mil Standard 810 D

25.4 - 57.15 mm (1 to 2.25") pipe/pole mount

Certifications US, Canada, Brazil, Mexico, Philippines, Morocco

Warranty 1 Year Parts and Labor

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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