

Trailblazer™ Leased Line

Dedicated Analog Link at Huge Savings Over Copper

2-wire or 4-wire leased line emulation with ranges up to 50km / 32 mile line-of-sight.



The Trailblazer™ Leased Line

Provides a dedicated "full-time" analog connection between two points with line-of-sight. Can be configured for any combination of up to eight, 2-wire or 4-wire lines.

TYPICAL APPLICATIONS:

- Public Safety Lines
- Corporate Tie Lines
- Private Networks
- Remote Monitoring
- Slow-Scan Video

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 V DC, 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.

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.



Up to 8 Leased Lines
8 Lbs. / 3.62 kg
13 x 11 x 6 inches
33 x 28 x 15 cm

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

Specifications for Trailblazer™ Leased Line

System Specifications

Product Description	Digital Microwave Radio with Leased Line Interface
Air Interface	Proprietary Time Division Duplexing with Direct Sequence Spread Spectrum CDMA
Overall Data Throughput Rate	64 kbps
End-to-End System Latency	Between 3 and 5 ms
Voice Coding	64 kbps PCM, per ITUG.711, A or u-law

RF Performance

RF Frequency Band	2400 to 24835 MHz
RF Channels	6 Operational + 1 Administrative
Spreading Codes	Direct Sequence
Modulation Type	CDMA, BPSK
Transmitter Output Power	-20 to + 20dBm, auto set for CDMA operation
Max System ERP	38 dBi (20 dBm + 18 dBi External Antenna)
Receiver Sensitivity	-93 dBm @ 10-6 BER
External Antenna Port	"N" Type Female

Power Requirements & Consumption

Filtered DC Nominal	12 to 48 Volts, Earth Ground Required
Absolute Minimum - Maximum	10 - 56 Volts
FXO (Office) End, On or Off-Hook	2 Watts (Typical)
AC Adapter	Supplied Separately, Input 100 - 260 VAC, 50 - 60 Hz, Output 13.8V @ 1 amp

Baseband Audio Performance

Signaling	All Audio is Passed Through Unrestricted
Modem Support	V.34 Supported, V.90 Compatible
FAX Support	G3, G4; Unrestricted
POTS Line Interface	FXO Interface Cards Installed
Connectors	Screw Terminals
Capacity	Up to 8 DS (0) Analog Dedicated Lines

FXO Specifications

Line and Balance Impedance	Factory Set per Country
Maximum Loop Length	1500 Ohms or 18mA
Ring Equivalent Number	0.3B
Ring Detect	24 - 110 Vrms, 17 - 34 Hz
2 Wire Return Loss (ERL)	Greater than 19 dB

Maintenance Data Interface

Command Console Port	RS-232 (9600bps, N, 8, 1)
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Environmental Specifications

Operating Temperature and Humidity	-30° to +60°C (Ambient with Solar Shielding), 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
Mounting	25.4 - 57.15 mm (1 to 2.25") pipe/pole mount
Enclosure Material	GE Valox99® Polycarbonate with Neoprene Gasket
Unit Weight	8 lbs/ 3.7kg
Unit Dimensions	13 x 11 x 6 inches/ 33 x 28 x 15 centimeters
Shipping Container Size	19 x 15 x 13 inches/ 47 x 37 x 32 centimeters

Certifications	US, Canada, Brazil, Mexico, Philippines, Morocco
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Warranty	1 Year Parts and Labor
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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