

Trailblazer™ Ethernet Bridge

Up to 11 Mbps: expandable and programmable digital radio for broadband data.



The Trailblazer™ Ethernet Bridge

Delivers a digital microwave radio for data service. Configurable for up to 11 Mbps data with ranges up to 32 mi/50 km or more with repeaters. Supports 10/100 BaseT Ethernet in a point to point or point to multipoint configuration.

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.

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 11 Mbps

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™ Ethernet Bridge

Baseband Performance

Programming Digital Interface	RS-232 asynchronous, SNMP
Air Interface	IEEE 802.11b
Line Interface	10/100 BaseT Ethernet
Connectors	RJ-45
Capacity	2 Mbps or 11 Mbps

RF Performance

Frequency Range	2400 to 2483.5 MHz (in USA; possible slight variation with each country)
RF Channels	3 operational + 1 administrative
Spreading Method	Direct sequence
Spreading Codes	4
Modulation	QPSK @ 2Mb, or BPS @ 1Mb
Processing Gain	12 dB
RF Output Power	+15 dBm minimum, +16 dBm typical
System ERP	34 dBi (16 dBm + 18 dBi antenna)
Receive Sensitivity	-85 dBm @ 2 Mb, -90 dBm @ 1Mb
Antenna Connection	"N" Type Female

Power Requirements & Consumption

Filtered DC Nominal	12 - 48 volts
Absolute Minimum - Maximum	10 - 56 volts
AC Adapter	110 / 220 VAC

Environmental Specifications

Operating Temperature	-30 - +60 degrees C
Humidity	10 to 95% non-condensing
Shock and Vibration	Mil standard 810 D
Exposure to the Elements	NEMA 4X, all except submerged
Enclosure Material	GE Valox® w/ neoprene gasket
Unit Weight	8 lbs / 3.7 kg
Unit Dimensions	13 x 11 x 6 inches / 33 x 28 x 15 centimeters
Shipping Weight (complete system)	18 lbs / 8 kg
Shipping Container Size	19 x 15 x 13 inches / 47 x 37 x 32 centimeters

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

Warranty 1 Year Parts and Labor

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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