

Trailblazer™ Two Line Wireless Phone Line Extender Package

OUTDOOR POINT-TO-POINT MICROWAVE DIGITAL RADIOS PROVIDING TWO PHONE LINES + ETHERNET

Provides perfect wireline quality to virtually anywhere. Great for temporary or permanent applications. No hassles associated with wire lines!

The Solution for extending POTS + Ethernet:

- To rural residences
- To construction and mining sites
- To ranches and farms
- To guard shacks and out-buildings
- Across rivers, lakes and bays
- Across roads and highways
- Across tarmacs and over pipelines

Features:

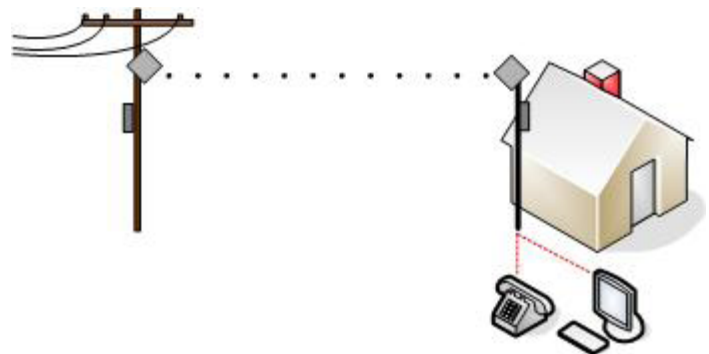
- 2 fully enabled POTS phone lines
- 512 Kbps aggregate Ethernet
- Supports all Carrier Class features
- Supports 911 call back
- Compatible with all faxes and modems
- 4 mile range (Line of Sight) and up to 50 miles with antenna upgrade.
- Plug and Play simplicity and reliability
- Rugged waterproof enclosure
- No license required, yet private and secure
- Low power draw, solar powerable
- Up to 8 hours back up battery

System Includes:

- (2) enclosures with 5.8 GHz radios
- POTS phone line and Ethernet interfaces
- 12 - 48 VDC power supply and battery backup power
- (2) 23 dB panel antennas
- (2) 50' LMR 400 cables
- (2) wall/pole mounts
- Lightning and surge protection



Outdoor NEMA 4x Enclosure



23 dB Panel Antenna

Contact our Sales Department for pricing and availability.

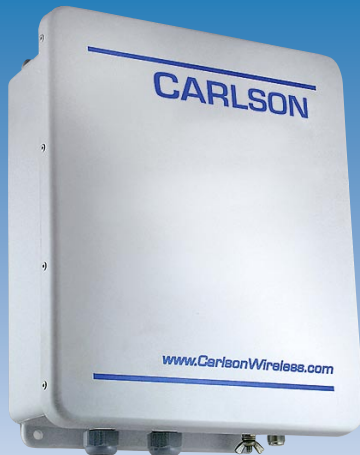


CARLSON WIRELESS™
Microwave Broadband and Telephone

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phone: 707.822.7000
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Trailblazer™

Designed and Built for Plug and Play



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TRAILBLAZER SPECIFICATIONS - Custom Configurations Available	
Product Description	Digital microwave radio with POTS, Leased line 10 Base TV.35 port
Air Interface	Proprietary Time Division Duplexing with Direct Sequence Spread Spectrum CDMA
Overall Data Throughput Rate	64 - 512 kbps, Selectable (Configurable GUI)
End to End System Latency	Fixed latency, Less than 5 ms
Operating Power	CPE terminal: 3W (idle) to 9W (max) Base terminal: 2.5W (typical)
Supply Voltage - Filtered DC	12V - 24V (32V max). Earth ground required, AC adaptor available (100 - 260 VAC, 50 - 60 Hz)

RF PERFORMANCE	
Frequency Range	2.400 to 2.483 GHz, 4.940 to 4.990 GHz, 5.150 to 5.850 GHz
RF Channels	20 MHz
Spreading Codes	4 auto-selectable orthogonal codes
Modulation	BPSK (256 bbs) or QPSK (512 kbps) DSSS
Tx Power	+20 dBm
Receiver Sensitivity (10-6 BER)	-93 dBm/256 kbps; -90 dBm/512 kbps
Antenna	Various external antennas
EMC Compatibility	FCC Part 15.247

FXO SPECIFICATIONS	
DS-O Lines	2, 4, 6 or 8
Line and Balance Impedance	Both resistive and reactive parameters can be factory set per country requirements
Maximum Loop Length	1500 ohms at 20 mA
Ring Type and Equivalent Number	Balanced sinusoidal, 0.3B per line
Ring Detect Threshold	24-110 Vrms, 17-34 Hz
2-Wire Port Return Loss	24 dB (min)
Regulatory	TIA/EIA/IS-968 (FCC), UL 1950, UL 60950, EN60950, IEC60950, EN55022B, CISPR22B, EN55024 and TRB-21

FXS SPECIFICATIONS	
DS-O Lines	2, 4, 6 or 8
Line and Balance Impedance	Both resistive and reactive parameters can be factory set per country requirements
Open Loop Voltage	36 - 48 Volts
Loop Current	20 mA (min) to 24 mA (max)
Maximum Loop Length	1200 ohms including instrument
Ring Voltage, Waveform and Load	60 VAC RMS, Balanced sinusoidal, 3 REN
TTX Generation	12 or 16 KHz, typically set to 200 mV rms
2-Wire Port Return Loss	24 dB (min)
Regulatory	LSSGR, TR57, ITU Q.552 and G.712

USER DATA INTERFACE	
Data Port Interface	10BaseT Ethernet or V.35
Synchronous Data Rate (kbps)	512/256/128/64, selectable from configurable GUI
Digital Latency, End to End	< 4.5 ms
Data Interface Connector	25 pin "D" type female

MAINTENANCE DATA INTERFACE	
Command Console Port	RS-232 (9600 bps, N, 8, 1)

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature & 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
Mounting	25.4 - 57.15 mm (1 to 2.25") pipe/pole mount

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