



Trinity-50

High-speed Point to Point backhaul link with 23 dBi integrated antenna. A preconfigured link kit that is ready to bridge traffic out of the box.

Hardware Facts

- Up to 65 Mbit/s TCP/IP traffic
- Up to 20 000 packets per second
- Carrier Grade Radio with enhanced lightning protection
- 23 dBi inbuilt antenna
- Power over Ethernet
- Up to 40 MHz channel width supported
- Frequency ranges: 5.150 – 5.845 GHz

Software Facts

- Optimised for Point to Point
- Inbuilt Spectrum Analyser
- Inbuilt Speed Test
- Pre configured: works straight out of the box with no software installation required



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Link quality:

Signal Strength:

	Tx	Rx
Success:	7	1000
Retries:	0 0.0%	
Error:	0 0.0%	
Checksum error:		4 0.3%
Fly error:		2101
RSSI:		41 dBm
Signal:		-84 dBm
Noise:		-96 dBm
Transmit rate:	54 Mbit	6 Mbit

Client mode, current channel: 56 (5.28 GHz)
 Radio MAC: 00:0b:6b:70:18:76
 Ethernet MAC: 00:02:b3:02:02:02
 Remote radio MAC: 00:0b:6b:37:bb:16

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Site survey
 A site survey shows other access points within range.

SSID:	MAC:	Channel/Freq:	RSSI:	Level:	Noise:
00:0b:6b:37:bb:16	00:0b:6b:37:bb:16	56 (5.28 GHz)	42	-54	-96
00:0b:6b:34:21:59	00:0b:6b:34:21:59	36 (5.18 GHz)	23	-73	-92
00:0b:6b:2f:21:85	00:0b:6b:2f:21:85	36 (5.18 GHz)	21	-74	-92
00:0b:6b:37:bb:16	00:0b:6b:37:bb:16	56 (5.28 GHz)	42	-54	-96
00:0b:6b:34:21:59	00:0b:6b:34:21:59	64 (5.32 GHz)	19	-87	-94

Spectrum Analyzer
 The spectrum analyzer will assist you in determine the level of background noise and how populated different channels are.

Current channel: 5280

Spectrum Analyzer

TCP/IP Performance test
 Test parameters
 Performance master endpoint NOT running
 IP-address:





Network & Power Interface

Ethernet 10/100BaseT (RJ45)
Power over Ethernet 12 - 48V
<10W

Security

WPA/WPA2-PSK; 64/128-bit WEP; TKIP/AES

QoS

IEEE 802.1Q, IEEE 802.1P

Inbuilt Antenna Specification

Gain, typ. 23dBi
VSWR, max. 1.5:1
3 dB Beam-Width, H-Plane, typ. 10.5°
3 dB Beam-Width, V-Plane, typ. 10.5°
Polarization Linear or Vertical
Lightning Protection DC Grounded

Radio

Modulation types OFDM with BPSK, QPSK, QAM16, QAM64
Frequency ranges: 5.150 – 5.845
Channel widths supported: 40MHz and 20MHz
Max output power 108Mb/s mod: 20 dBm
Max output power 54Mb/s mod: 20 dBm
Max output power 6Mb/s mod: 25 dBm
Max sensitivity 108Mb/s mod: -71 dBm
Max sensitivity 54Mb/s mod: -75 dBm
Max sensitivity 6Mb/s mod: -93 dBm
Internal DC Grounding
Surge Protection: ±13kV
Automatic bit-rate control
Automatic channel selection
DFS

Environment

Trinity-50

IP Code: IP67
Temperature: 40°/+55° C
Size: 300 x 300 x 70 mm
Weight: 1.9 Kg

Remote Management

Repeatit RCS Management Server
Web Interface
SNMP v2c
SSH/Telnet

Throughput vs Distance at a maximum 30dBm output power

Radio Bitrate Mbit/s	Kilometers							
	1	5	8	10	12	15	20	25
6	5	4	4	3	3	2	2	1
12	9	8	7	7	7	6	6	5
24	17	15	14	14	13	12	11	
36	25	23	21	20	19			
54	35	31						
72	50	45	42					
96	60							
108	65							

Green is within 6dB margin.

