

Technical Specifications:

Radio	
Frequency Bands	4.9 –6.1 GHz (restricted by country of operation)
Channel widths supported	5/10/20/40/80 MHz
PHY rate	867 Mbps
Ethernet throughput	>700 Mbps
Latency	2-4ms (3ms typical)
Modulation and coding	OFDM BPSK/QPSK/16QAM/64QAM/256QAM
Max output power (two chains)	30 dBm
Sensitivity (BPSK modulation)	-93dBm @20MHz -90dBm @40MHz -87dBm @80MHz
Security	AES-128 and TKIP encryption, MAC filtering
DFS support	Yes
QoS	Four configurable classes
NoiseRobust feature	Supported
Link Auto-Tuning	Auto power and auto-channel
Antenna	
Gain	24 ± 1 dBi
MIMO	2x2:2
VSWR	1.7 : 1
Beam width (@3dB)	8° (V-pol and H-pol)
Dual slant mounting option	Yes (plus/minus 45°)
Polarization	Dual Linear (Vertical and Horizontal)
F/B Ratio	ETSI, TS3, TS4, TS5
Cross Polarization	max 25 dB
Port to Port Isolation	30 dB
Antenna alignment	Diodes, Buzzer and via web GUI
Ethernet Interfaces and power	
Number of electrical GbE ports	2 (one WAN port, one PoE LAN port)
Radio unit powering	Power over Ethernet (48V DC). 802.3at/af compliant
PoE out support	10/100/1000 Electrical Ethernet, up to 13W power consumption
Ethernet port protection	IEC 61000-4-2, IEC 61000-4-4, IEC 61000-4-5
Management VLAN	Supported
Management	
Node Management	Web interface (over HTTP/HTTPS)
Management system	Repeatit Cloud Network
Environment	
IP rating	IP67 (offshore IP68 optionally available)
Operating Temperature	-50°C to +90° C
Storage Temperature	-65°C to 150°C
Operating humidity	0-96% condensing
Shock & Vibration	ETS 300-019-2-4 class 4M5
Wind speed	200 km/h
Size	370 × 370 × 95 mm
Weight per unit	4.0 Kg
Antenna Protection	Internal DC Grounding

About Trinity 823

The Repeatit Trinity 823 is a high performance, ruggedized PTP (point to point) wireless bridge providing more than 700 Mbps ethernet throughput.

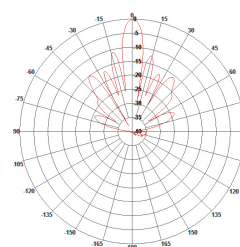
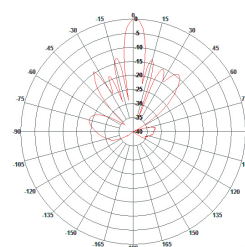
The combination of it's high radio power of 30 dBm, the high gain fully integrated high quality 24 dBi antenna and Repeatit's unique NoiseRobust functionality, make it the perfect fit for short and long range high bandwidth requirements even in harsh and noisy environments. The two integrated Gigabit Ethernet ports (of which one is PoE out), the free of charge Repeatit Cloud Management, the broad frequency range of 4.9-6.1 GHz and its IP67 rating are just a few of the outstanding highlights of the Trinity 823.



Vertical Polarization

E-Plane Pattern

H-Plane Pattern



Horizontal Polarization

E-Plane Pattern

H-Plane Pattern

