

## Technical Specifications:

Radio	
Frequency Bands	5.150 – 5.850 GHz
Channel widths supported	5/10/20/40 MHz
Capacity	245 Mbps
Duplex Technique	TDD
SyncMaster Support	Yes
Trinity Multipoint support	Yes
Modulation	OFDM, BPSK, QPSK, 16QAM, 64QAM
Max Tx power	25 dBm
Max Rx sensitivity	-97 dBm
Error Correction	FEC; k=1/2, 2/3, 3/4, 5/6
Encryption	128 bit AES & MAC level Authentication
Surge Protection	15kV
DFS	Yes
QoS	Four Access Categories (AC) Voice, Video, Best Effort, and Background. Traffic classification according to WMM
Inbuilt Antenna	
Gain, typ.	16 dBi
3 dB-Beam-Width, H-Plane, typ.	30°
3 dB-Beam-Width, E-Plane, typ.	17°
Polarization	Dual, Vertical and Horizontal
F/B Ratio	-30 dB
Cross Polarization, max.	-28 dB
Port to Port Isolation	-30 dB
Ethernet Interface	
Type	10/100/1000 BaseT Interface with Auto-negotiation (IEEE 802.3), Manual
Number of Ethernet Ports	1
Framing/Coding	IEEE 802.3u
Traffic Handling	MAC layer bridging, self-learning 802.1q transparent
Data Latency	2-4ms (3ms typical)
Packets/second	> 40 000
VLAN ID for Management	Supported
Power over Ethernet	48V DC, 802.3af, <6W typical
Connector	RJ-45
Certifications	
Radio	FCC Part 15.247 ETSI: EN 301 893 V1.5.1 ETSI EN 302 502 V1.2.1
EMC	FCC part 15 class B, EN 55022:2010 Class B EN 55024:2010 ETSI EN 301 489-1 V1.9.2 ETSI EN 301 489-17 V2.1.1
Safety	IEC 60950-1 EN 60950-1
Health	EN 62311:2008
Management	
Link Management	Web interface
NMS Application	Repeatit Cloud Network RCS Management Service
Tools in web interface	Spectrum Analyser, Speed Test
Environment	
IP Code	IP62
Temperature	-40° / +55° C
Size	250 x 210 x 80 mm
Wind speed survival	200 km/h
Weight per unit	1.1 Kg

## About Trinity 316s:

The Repeatit Trinity 316s is a high performance, ultra-small form factor PtP (point to point) & PtF (point to few) transparent bridge that is managed by the Repeatit Cloud ecosystem. Due to its small form factor and high performance, the Trinity 316s is often used in urban & rural, short range PtP environments.

