MLTG-CN
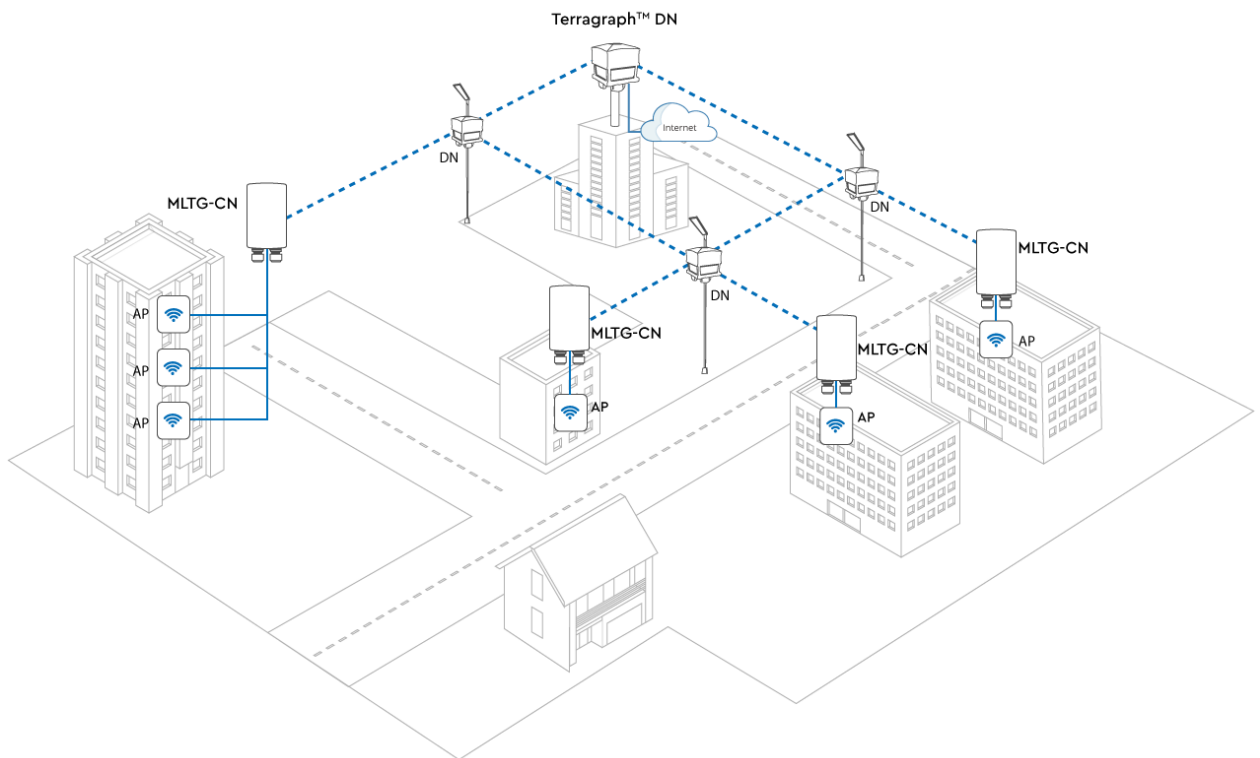## TERRAGRAPH CLIENT NODE

INTRODUCTION

MLTG-CN is a Terragraph™ certified client node (CN). MLTG-CN supports IEEE802.11ay standard to deliver high-speed Internet in a noise-free and unlicensed 60GHz spectrum. When connected with Terragraph™ certified distribution node (DN), MLTG-CN can function as Customer Premise Equipment (CPE) to provide last mile wireless gigabit connectivity to the client site, such as warehouse, company building, or residential area. MLTG-CN can also be paired to deliver Point-to-Point (PtP) wireless gigabit throughput for backhaul or last mile access without the costly installation of cabled fiber.

SPECIFICATIONS

PHYSICAL	
Power	• 48~55V passive Gigabit PoE
Dimensions (L x W x H)	• 17.73 x 11.16 x 4.3 cm (6.98 x 4.39 x 1.69 in)
Weight	• 518 g (1.14 lbs)
Interface	• 1x Gigabit Ethernet Port (PoE IN) • 1x Gigabit Ethernet Port • 1x 60GHz Radio
Environmental Conditions	• IP66 Rating • Operating Temperature: -20ºC (-4ºF) to 55ºC (131ºF) • Storage Temperature: -20ºC (-4ºF) to 70ºC (158ºF) • Operating Humidity: 5% to 95% non-condensing • Wind Resistance: 208 km/h
Power Consumption	• 24W max.
Antenna	• Type: Built-in phased array antenna • Gain: 22 dBi
Mounting	• Wall/Pole mount (Mounting kit included)
Certifications	• FCC/IC/CE/VCCI/TELEC/RCM
RADIO	
Standards	• 802.11ay
60GHz Radio	• Phased array antenna with 64 antenna elements • 90 degrees azimuth scan range: -45º to 45º • 50 degrees elevation scan range: -25º to 25º
RF Output Power[1]	• Up to 38 dBm[2]
Frequency Band	• 57-66GHz
Modulation	• BPSK, QPSK, 16QAM
PERFORMANCE	

Range	• When connected to Edgecore MLTG-360 Terragraph Certified DN, the MLTG-CN supports:
	  • Up to 100m (0.06 mi) for MCS12
	  • Up to 150m (0.09 mi) for MCS9
	• When connected to Edgecore MLTG-CN Terragraph Certified CN, the MLTG-CN supports:
	  • Up to 80m (0.05 mi) for MCS9

Throughput	• 2 Gbps aggregated

[1]: RF output power here stands for EIRP with antenna gain
[2]: Maximum power is limited by local regulatory requirements

KEY FEATURES

Support channel 1 to channel 4 (57-66GHz)

Up to 2 Gbps bi-directional aggregate throughput

Beamforming technology with phased array antenna for easy alignment

Support TDMA-MAC for dynamic bandwidth allocation

Support Over-the-Air (OTA) Security with AES128 encryption

Support QoS with 4 service classes

IPv6 tunneling

Support Layer 2 Forwarding
- Support VLAN transparent transmission
- Support management VLAN

ACCESSORIES

PART NUMBER	DESCRIPTION
ICC-P20-Bracket	• Precision Bracket (Optional) • Wall/Pole mount • Tilt range: +/- 20 degree
ICC-BRACKET-STD	• MetroLinq™ Standard Bracket (Optional) • Wall/Pole mount • Vertical adjustable range: +/- 80 degree • Horizontal adjustable range: +/- 80 degree