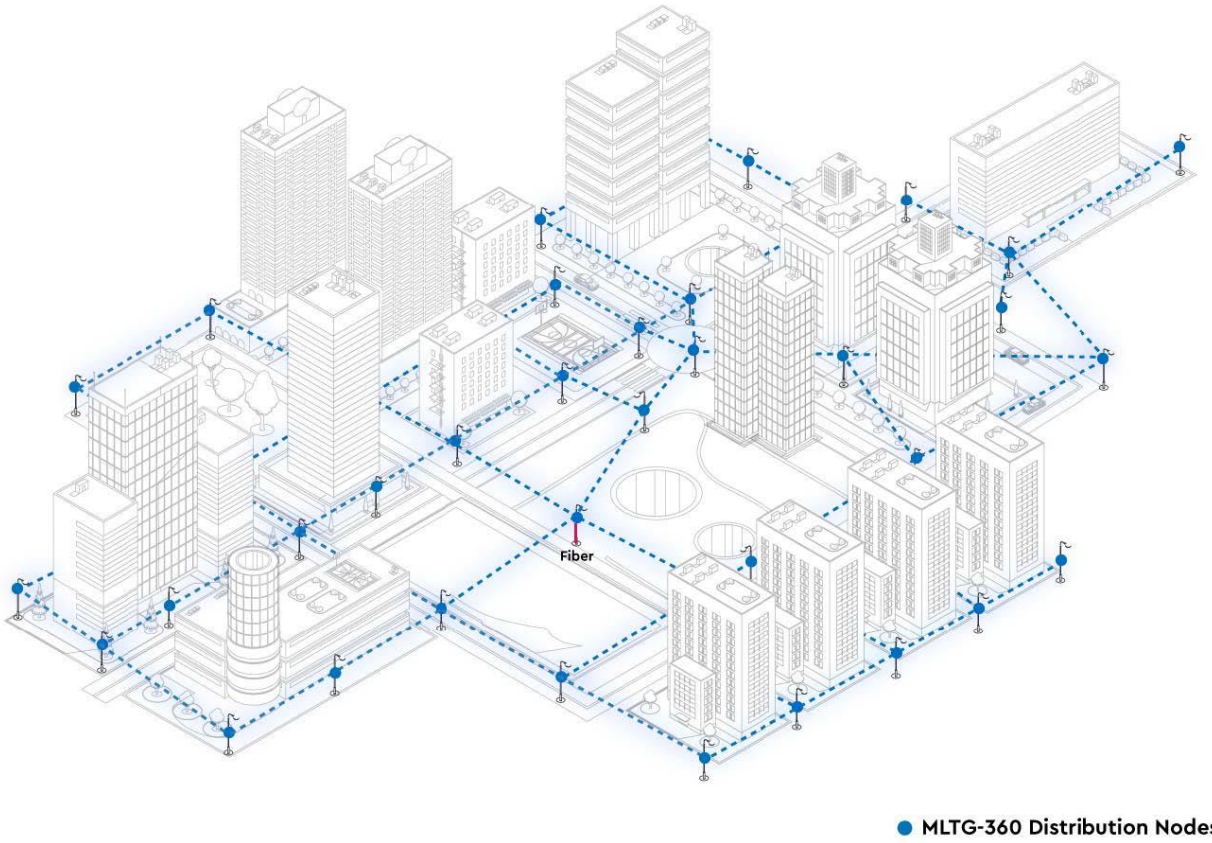
MLTG-360

TERRAGRAPH DISTRIBUTION NODE

INTRODUCTION

MLTG-360 is a Terragraph™ certified distribution node (DN). MLTG-360 has 4 radios, supporting 360o coverage. Each radio of MLTG-360 equipped with a 256-element beamforming phased array antenna, supporting up to 3.8 Gbps aggregate throughput. In addition, MLTG-360 supports advanced mesh solution to establish a robust wireless network. Resilient mesh can be easily constructed between multiple MLTG-360 to construct the wireless network with high availability.

MLTG-360 provides fiber-like connectivity at a lower cost than fiber which is ideal for fixed wireless access, backhaul of Wi-Fi, or cellular networks.



SPECIFICATIONS

PHYSICAL	
Power	• Passive PoE (Injector Optional) • 42.5V~59V DC terminal block
Dimensions (L x W x H)	• 19.9 x 19.9 x 20.0 cm (7.83 x 7.83 x 7.87 in)
Weight	• 3.9 kg (with mount)
Interface	• 1x Gigabit Ethernet Port (PoE IN) • 1x 10 Gigabit SFP+ port • 4x Gigabit Ethernet Port (PoE OUT)*1 • 4x 60GHz Radio
Environmental Conditions	• IP66 Rating • Operating Temperature: -40ºC (-40ºF) to 55ºC (131ºF) • Storage Temperature: -40ºC (-40ºF) to 85ºC (185ºF) • Operating Humidity: 5% to 95% non-condensing
Antenna	• Type: Built-in phased array antenna • Gain: 28 dBi°
Certifications	• FCC/CE
RADIO	
Standards	• 802.11ay
60GHz Radio	• 4 x antenna tiles per radio • 64 antenna elements for each antenna tile • 90 degrees azimuth scan range: -45º to 45º • 50 degrees elevation scan range: -25º to 25º
RF Output Power*2	• Up to 43 dBm*3
Frequency Band	• 57-66GHz
Modulation	• BPSK, QPSK, 16QAM
PERFORMANCE	
Range	• Up to 300m for MCS9 • Up to 200m for MCS12
RF Performance (RX)	• -66 dBm @ MCS9 • -61 dBm @ MCS12
Throughput	• 14 Gbps aggregated

*1: Only DC-in power supply can enable PoE out function
*2: RF output power here stands for EIRP with antenna gain
*3: Maximum power is limited by local regulatory requirements

KEY FEATURES
Support channel 1 to channel 4 (57-66GHz)
Up to 3.8Gbps bi-directional aggregate throughput for each radio
Beamforming technology with phased array antenna for easy alighment
Support TDMA-MAC for dynamic bandwidth allocation
Support Over-the-Air (OTA) Security with AES128 encryption
Mesh network with IPv6 routing
Support QoS with 4 service classes
Self-recovery & optimization
IPv6 tunneling
Support Layer 2 Forwarding ▪ Support VLAN transparent transmission ▪ Support management VLAN

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	Power Consumption
MLTG-360	• Terragraph DN with 4 radios, 360º coverage	• 75W max.
MLTG-360-3	• Terragraph DN with 3 radios, 270º coverage	• 60W max.
MLTG-360-2P	• Terragraph DN with 2 radios (in parallel), 180º coverage	• 45W max.
MLTG-360-2R	• Terragraph DN with 2 radios (at right angle), 180º coverage	• 45W max.
MLTG-360-1	• Terragraph DN with 1 radios, 90º coverage	• 30W max.

ACCESSORIES

PART NUMBER	DESCRIPTION
J-Bracket	• MLTG-360 Bracket, Pole mount
PoE Injector	• 90W PoE Injector* • 60W PoE Injector

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