

MLTG-360

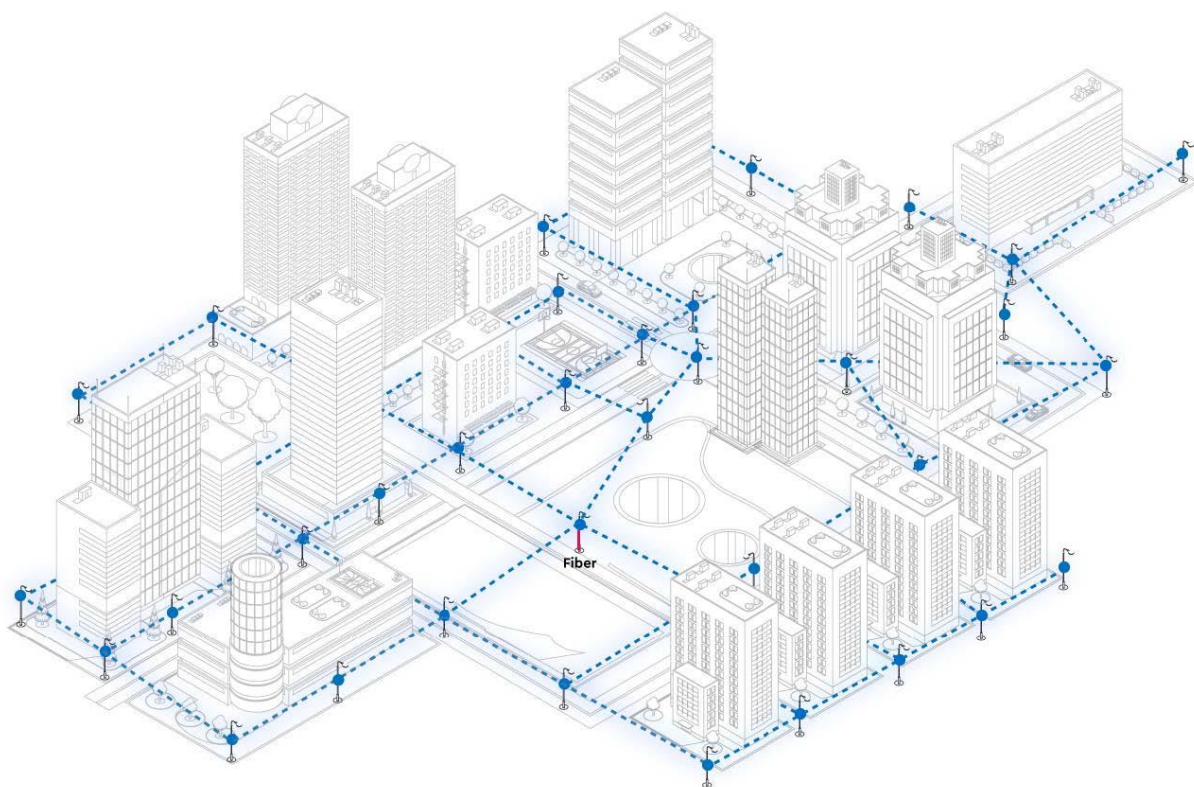
TERRAGRAPH DISTRIBUTION NODE



INTRODUCTION

MLTG-360 is a Terragraph™ certified distribution node (DN). MLTG-360 has 4 radios, supporting 360° coverage. Each radio of MLTG-360 is 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.



● MLTG-360 Distribution Nodes

SPECIFICATIONS

PHYSICAL	
Power	<ul style="list-style-type: none"> • Passive PoE (Injector Optional) • 42.5V~59V DC terminal block
Dimensions (L x W x H)	<ul style="list-style-type: none"> • 19.9 x 19.9 x 20.0 cm (7.83 x 7.83 x 7.87 in)
Weight	<ul style="list-style-type: none"> • 3.9 kg (with mount)
Interface	<ul style="list-style-type: none"> • 1x Gigabit Ethernet Port (PoE IN) • 1x 10 Gigabit SFP+ port • 4x Gigabit Ethernet Port (PoE OUT)*1 • 4x 60GHz Radio
Environmental Conditions	<ul style="list-style-type: none"> • IP66 Rating • Operating Temperature: -40°C (-40°F) to 55°C (131°F) • Storage Temperature: -40°C (-40°F) to 85°C (185°F) • Operating Humidity: 5% to 95% non-condensing
Antenna	<ul style="list-style-type: none"> • Type: Built-in phased array antenna • Gain: 28 dBi°
Certifications	<ul style="list-style-type: none"> • FCC/CE
RADIO	
Standards	<ul style="list-style-type: none"> • 802.11ay
60GHz Radio	<ul style="list-style-type: none"> • 4 x antenna tiles per radio • 64 antenna elements for each antenna tile • 90 degrees azimuth scan range: -45° to 45° • 50 degrees elevation scan range: -25° to 25°
RF Output Power*2	<ul style="list-style-type: none"> • Up to 43 dBm*3
Frequency Band	<ul style="list-style-type: none"> • 57-66GHz
Modulation	<ul style="list-style-type: none"> • BPSK, QPSK, 16QAM
PERFORMANCE	
Range	<ul style="list-style-type: none"> • Up to 300m for MCS9 • Up to 200m for MCS12
RF Performance (RX)	<ul style="list-style-type: none"> • -66 dBm @ MCS9 • -61 dBm @ MCS12
	<ul style="list-style-type: none"> • D

*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 alignment****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	<ul style="list-style-type: none"> • Terragraph DN with 4 radios, 360° coverage 	<ul style="list-style-type: none"> • 75W max.
MLTG-360-3	<ul style="list-style-type: none"> • Terragraph DN with 3 radios, 270° coverage 	<ul style="list-style-type: none"> • 60W max.
MLTG-360-2P	<ul style="list-style-type: none"> • Terragraph DN with 2 radios (in parallel), 180° coverage 	<ul style="list-style-type: none"> • 45W max.
MLTG-360-2R	<ul style="list-style-type: none"> • Terragraph DN with 2 radios (at right angle), 180° coverage 	<ul style="list-style-type: none"> • 45W max.
MLTG-360-1	<ul style="list-style-type: none"> • Terragraph DN with 1 radios, 90° coverage 	<ul style="list-style-type: none"> • 30W max.

ACCESSORIES

PART NUMBER	DESCRIPTION
J-Bracket	<ul style="list-style-type: none"> • MLTG-360 Bracket, Pole mount
PoE Injector	<ul style="list-style-type: none"> • 90W PoE Injector* • 60W PoE Injector