



ADTRAN

Metnet 60G

mmWave (60GHz) CPE



Gigabit



Mesh

PoE
Capable

Low TCO

Key Applications

- Enterprise Fixed Wireless Access
- Residential Fixed Wireless Access

Overview

Metnet 60G mmWave FWA technology now enables operators and service providers to rapidly deliver Gigabit virtual fibre services to residential and enterprise customers. The new Metnet60G next-generation CPE connects automatically to the multipoint mesh network providing virtual fibre connectivity at customer premises in an easy to deploy, small form factor, and low-cost device.

The latest version of the Metnet CPE has been cost optimized to meet the business requirements of broadband providers to complement fibre to the home (FTTH) and fibre to the building (FTTB)

Operating in the unlicensed 60GHz band between 57GHz and 71GHz, Metnet CPEs deliver up to 1Gbps connectivity into home or businesses. Wall or pole mount options together with PoE ensure Metnet CPE can be flexibly installed at any location.

Electronic beamforming antennas automatically scan and connect to the optimal mesh nodes resulting in rapid and simple deployment in less than 15 minutes.

Metnet SON delivers advanced interference avoidance utilizing time, frequency and space diversity to continuously optimize spectral efficiency, traffic routing, performance and radio co-existence. Metnet 12Gbps Mesh Nodes connect autonomously to form flexible self-organizing, self-healing networks that deliver higher reliability than Point-to-Multipoint networks.

ADTRAN METNET 60G

Product Specifications

Metnet 60G CPE

Frequency Band:

- ◆ 60GHz mmWave unlicensed
- ◆ Full 57GHz to 71GHz band

■ Topologies:

- ◆ Point to MultiPoint
- ◆ MultiPoint to MultiPoint (Mesh)

■ Capacity: 1Gbps per CPE

■ Radio Access:

- ◆ Metnet SON utilizing TDMA
- ◆ Dynamic TDD

■ Beam angle:

- ◆ Horizontal 90° electronic steerable, 5° beamwidth
- ◆ Vertical 20° fixed, optional +/- 15° mechanical using tilt bracket

■ Antenna: Beamforming Phase array 21dBi gain

■ Channels: 802.11ad WiGig Channels 1 to 6

■ Modulation and encoding: 13 levels of adaptive encoding MCS 0 - 12

■ Transmitter and EIRP:

- ◆ 19dBm SiGe based
- ◆ 40dBm EIRP

■ Range: Up to 500m* (Dependant on location, availability, and capacity)

■ Interfaces: 1 x Fixed RJ45 100/1000 Base-T

■ Max connections: 120 CPE's per mesh node

■ Ethernet Services:

- ◆ Native Ethernet
- ◆ 802.1Q (VLAN Tagging)
- ◆ 802.1p QoS (Class of service)
- ◆ Differentiated Services Code Point QoS (DSCP)
- ◆ 802.1ad QinQ

■ Power:

- ◆ PoE 1 x PD interface
- ◆ 802.3at <25W

■ Environmental:

- ◆ -40C to +55C operating temperature
- ◆ IP65 ingress protection rated

■ Regulatory:

- ◆ Radio: US FCC 47 CFR Part 15.255 and EN 302 567, EN 303 413
- ◆ EMC: US FCC 47 CFR Part 15B and EN 301 489
- ◆ Safety: IEC 62368-1:2014, IEC 60950-22:2005, EN50385:2017

■ Dimensions: Height: 183mm Width: 123mm Depth: 48mm

■ Weight: 1.25 KG approx

Ordering Information

Equipment	Part No.
CCS variant	G60UV030088
ADTRAN variant	G60UV030188



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