

The OneNet logo, featuring a stylized house icon with three vertical bars inside, followed by the text 'OneNet' in a bold sans-serif font.

OneNet™

Wi-Fi TDMA3 5GHz CPE

IONE-CPEOO1-T35GO-OSZ

Item 6866

The Inverto OneNet™ TDMA3 CPE is the subscriber-side unit of the OneNet™ fixed wireless broadband system. Designed for simple outdoor installation at residential or business premises, it pairs with the OneNet™ Access Point to deliver reliable high-speed internet connectivity over distances of up to 5 km.

Equipped with a built-in 12 dBi dual-polarisation directional antenna and powered by the TDMA3 air protocol, the CPE ensures stable, low-latency connectivity in a compact weatherproof form factor. Its dual Ethernet ports make it easy to integrate with existing home routers or Inverto's MoCA Access gateway, completing a seamless last-mile-plus-in-building broadband solution.

Main Features:

- 12 dBi built-in dual-polarisation directional antenna supporting PtMP connections up to 5 km
- TDMA3 air protocol compatibility — Intelligent Dynamic Slot Allocation for low-latency, high-throughput service per subscriber
- IEEE 802.11a/n/ac (up to 867 Mbps) with 5/10/20/40/80 MHz channel widths including narrowband modes
- Dual Gigabit Ethernet ports (WAN + LAN); flexible power: 24V–48V passive PoE or DC 12–24V
- Dedicated TVS lightning protection and IP65-rated outdoor enclosure, –30°C to +55°C operating range
- VLAN, IPv4/IPv6, STP, Backup SSID, and remote management via HTTP(S) GUI, SSH, NMS, and cloud platform



Technical specifications

SYSTEM

CPU	QCA9563 + QCA9882 + QCA8334		
Flash	SPI NOR 16 MB		
DDR	DDR2 128 MB		
Wi-Fi Standard	IEEE 802.11a/n/ac		
Max Data Rate	867 Mbps		
Frequency Band	5.150–5.850 GHz (extended: 4.9–6.1 GHz)		
Channel Width	5 / 10 / 20 / 40 / 80 MHz		
TX Power	802.11a:	54M +23 ± 2 dBm,	6M +26 ± 2 dBm
	802.11n HT20:	MCS7 +22 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11n HT40:	MCS7 +22 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11ac VHT20:	MCS9 +21 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11ac VHT40:	MCS9 +21 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11ac VHT80:	MCS9 +21 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11a:	54M +23 ± 2 dBm,	6M +26 ± 2 dBm
Rx Sensitivity	802.11n HT20:	MCS7 +22 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11n HT40:	MCS7 +22 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11ac VHT20:	MCS9 +21 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11ac VHT40:	MCS9 +21 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11ac VHT80:	MCS9 +21 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11a:	54M +23 ± 2 dBm,	6M +26 ± 2 dBm
	802.11n HT20:	MCS7 +22 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11n HT40:	MCS7 +22 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11ac VHT20:	MCS9 +21 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11ac VHT40:	MCS9 +21 ± 2 dBm,	MCS0 +26 ± 2 dBm
	802.11ac VHT80:	MCS9 +21 ± 2 dBm,	MCS0 +26 ± 2 dBm
Air Protocol	TDMA3 — Intelligent Dynamic Slot Allocation		
Working Mode	Access Point (Auto WDS / TDMA3), Station (WDS/TDMA3 / ARP NAT)		

ANTENNA

Type	Built-in dual-polarisation directional panel antenna
Gain	12 dBi
Polarisation	Vertical / Horizontal dual polarisation
Cross-Pol Isolation	27 dB
Max VSWR	< 1.8
Horizontal Beam Angle	60°
Vertical Beam Angle	30°
Working Frequency	5180–5850 MHz

NETWORKING

WAN	1 × 10/100/1000M; 24V–48V passive PoE input
LAN	1 × 10/100/1000M
Network Mode	IPv4 / IPv6, Bridge, Router
VLAN	VLAN support, VLAN trunking, STP (Spanning Tree Protocol)
WAN Protocol	Static IP, DHCP client
Wireless QoS	TDMA 4-level queue priority, bandwidth limitation
Security	WPA/WPA2 Personal & Enterprise, WACL, client isolation
Services	DHCP, SNMP, NTP, ping watchdog, mDNS, CDP/LLDP, SSDP, GRE, PPPoE relay
Management	HTTP(S) GUI, SSH, SNMP read, NMS, Telnet, cloud platform, remote logging
Built-in Tools	Site survey, link test, antenna alignment, traceroute

MECHANICAL & POWER

Dimensions (H x W x D)	168 x 86 x 42.5 mm
Weight	0.28 kg
IP Rating	IP65
Power Supply	24V–48V passive PoE; DC 12–24V
Power Consumption	< 10 W
Indicators	SYS, WAN, LAN, Signal x5
Reset	Press 6 sec for factory reset

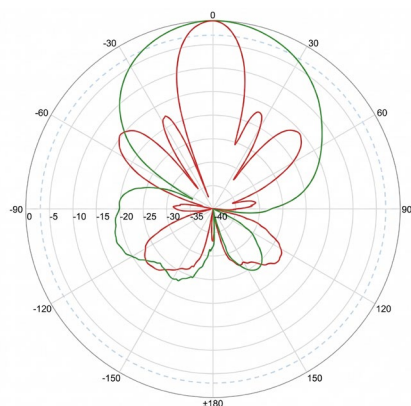
ENVIRONMENTAL

Operating Temperature	–30°C to +55°C
Storage Temperature	–40°C to +70°C
Humidity	5%–95% non-condensing
ESD Protection	Air: ±8 kV, Contact: ±6 kV
Electrical Surge	Common Mode: 4 kV, Differential Mode: 2 kV
Lightning Protection	Dedicated TVS lightning protection devices

LOGISTICAL INFORMATION

Dimensions (W x D x H)	168 mm x 86 mm x 42.5 mm
Weight	0.28 Kg
Package	1 x CPE unit 1x 24V PoE adapter 1x Power cord 2x Cable ties

Horizontal polarization



Vertical polarization

