



PtMP TDMA3 5GHz Wireless Access Point with Sector Antenna

IONE-ACPOO1-T35GO-OSZ

Item 6867

The Inverto OneNet™ TDMA3 Access Point is purpose-built for rural and semi-rural fixed wireless broadband deployments. Operating in the unlicensed 5 GHz band, it delivers high-throughput, low-latency connectivity across a 90–120° sector, enabling a single unit to serve dozens of subscriber premises simultaneously.

Its TDMA3 air protocol with Intelligent Dynamic Slot Allocation ensures fair bandwidth distribution and minimises interference even in dense deployment environments. Combined with Inverto's MoCA Access gateway CPE, the OneNet™ system provides a seamless last-mile-plus-in-building broadband solution — from the tower to the TV.

Main Features:

- 18 dBi dual-polarisation integrated sector antenna covering 90–120° horizontal beamwidth, up to 5 km range
- TDMA3 air protocol with Intelligent Dynamic Slot Allocation — optimises time-slot scheduling per subscriber for low latency and high aggregate throughput
- IEEE 802.11a/n/ac (up to 866 Mbps) with 5/10/20/40/80 MHz channel widths, including narrowband modes for spectrum-constrained environments
- Extended frequency range 4.9–6.1 GHz (non-standard mode) and ATPC for efficient spectrum use and interference mitigation
- Ruggedised IP66-rated outdoor enclosure rated for –40°C to +70°C with ESD and electrical surge protection
- Gigabit PoE WAN port, VLAN, IPv4/IPv6, HTTP(S) GUI, SSH, SNMP, and WNMS cloud management



Technical specifications

SYSTEM

CPU	QCA9563 + QCA9882 + AR8033
Flash	SPI NOR 16 MB
DDR	DDR2 64 MB
Wi-Fi Standard	IEEE 802.11a/n/ac
Max Data Rate	866 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 +24 ± 2 dBm, 6M +27 ± 2 dBm 802.11n HT20: MCS7 +23 ± 2 dBm, MCS0 +26 ± 2 dBm 802.11n HT40: MCS7 +22 ± 2 dBm, MCS0 +25 ± 2 dBm 802.11ac: MCS9 +21 ± 2 dBm, MCS0 +24 ± 2 dBm
Rx Sensitivity	802.11a: 54M -72 dBm, 6M -92 dBm 802.11n HT20: MCS7 -70 dBm, MCS0 -89 dBm 802.11n HT40: MCS7 -68 dBm, MCS0 -87 dBm 802.11ac: MCS9 -58 dBm, MCS0 -85 dBm
Air Protocol	TDMA3 - Intelligent dynamic polling, Automatic channel selection, Automatic modulation mode selection, Automatic transmission power control (ATPC)
Working Mode	Access Point (TDMA3 / Auto WDS), Site (WDS/TDMA3 / ARPNAT)

ANTENNA

Type	Built-in dual-polarisation flat sector antenna
Gain	18 dBi
Polarisation	Vertical / Horizontal dual polarisation
Horizontal Beam Angle	90° (–3 dB) / 90–120° (–10 dB)
Vertical Beam Angle	7.5°
Working Frequency	4.9–6.1 GHz

NETWORKING

WAN	1 × 10/100/1000M; 24V passive PoE input
Network Mode	IPv4 / IPv6
VLAN	VLAN, VLAN transparent transmission
WAN Protocol	Static IP, DHCP client
Wireless QoS	TDMA 4-queue priority
Security	WPA/WPA2 Personal & Enterprise, WACL, user isolation
Services	DHCP, SNMP, NTP client, route tracking, ping watchdog
Management	HTTP(S) GUI, SSH, SNMP read, NMS, Telnet
Built-in Tools	Site survey, connection testing, antenna calibration

MECHANICAL & POWER

Dimensions (H x W x D)	430 x 98 x 80 mm
Weight	0.6 kg
IP Rating	IP66
Power Supply	PoE 24V / 1A passive
Power Consumption	< 10 W
Indicators	Power, WAN, Signal x4
Reset	Press 10 sec for factory reset

ENVIRONMENTAL

Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +70°C
Humidity	5%–95% non-condensing
ESD Protection	Air: ±8 kV, Touch: ±6 kV
Electrical Surge	Common Mode: 4 kV, Differential Mode: 2 kV

LOGISTICAL INFORMATION

Dimensions (W x D x H)	430 mm x 98 mm x 80 mm
Weight	0.6 Kg
Package	1 x Access point unit 1x Rack kit 1x PoE adapter 1x User manual

