indoor & outdoor
WIRELESS ACCESS POINTS.

11ac / 11n

Compex Systems Pte Ltd
Your Trusted Wireless Networking Partner

COMPEX MMZ SERIES

MMZ558 AC1750

Wireless N450 + AC1300 High Speed Multi-Function Dual Concurrent AP

Features

- Next-gen 802.11ac 3x3 MIMO Dual concurrent speeds up to 1300Mbps in 5Ghz leveraging high bandwith with intensive speeds
- Powerful 700Mhz Qualcomm Atheros AR9558 WiSoC
- High transmit power (Up to 27dBm) provide wide coverage
- Long Range Parameter settings for efficient wireless deployment for high receiver sensitivity
- Dual Gigabit Ethernet Port customisable to LAN+LAN or WAN+LAN Mode
- Smart Pyramidal Omni-directional Dual Band antenna
- Unique Ceiling Mount design support concealed cabling solutions
- Support up to 16 SSIDs (8 Per Radio)
- Powered by CompexWRT or OpenWRT Firmware

Specifications

- 450Mbps (2.4Ghz) + 1300Mbps (5Ghz)
- Integrated Smart Pyramidal Omni-directional antenna with 4.8dBi at 2.4Ghz + 5dBi at 5Ghz
- 2x Gigabit Ethernet Ports
- PoE 802.3at Compliant (DC Power Supported)
- Operation Modes:
  AP / Station / Station WDS / Access Point WDS / Router*

MMZ344 AC1200

Wireless N300 + AC867 Multi-Function Dual Concurrent AP

Features

- Wireless-AC Dual Band concurrent provide the next generation wireless speed for simultaneous large file sharing
- Gigabit data transfer rate for enterprise grade large bandwidth capability
- High transmit power (Up to 30dBm) provide wide coverage and hgh speed rate
- Powerful pyramidal Smart Omni-directional Dual Band antenna
- Unique Ceiling Mount design support concealed cabling solutions
- Support up to 16 SSIDs (8 Per Radio)
- Chillispot captive portal Hotspot technology supported
- Powered by CompexWRT or OpenWRT Firmware

Specifications

- 300Mbps (2.4Ghz) + 867Mbps (5Ghz)
- Integrated 4.8dBi at 2.4Ghz + 5dBi at 5Ghz Smart Omni-directional antenna
- 2x Gigabit Ethernet Ports
- PoE 802.3at Compliant (DC Power Supported)
- Operation Modes:
  AP / Station / Station WDS / Access Point WDS / Router*

MMZ531 N300

Wireless 2.4Ghz N300 Multi-Function AP

Features

- Smart Omni-directional Pyramidal 4dBi antenna
- Backward compatible with 802.11a/b/g/n devices
- Multiple operation modes for flexible deployment
- Unique Ceiling Mount design support concealed cabling solutions
- Chillispot captive portal Hotspot technology supported
- Powered by CompexWRT or OpenWRT Firmware

Specifications

- 300Mbps (2.4Ghz)
- Integrated 4.8dBi at 2.4Ghz Smart Omni-directional antenna
- 2x 10/100 Ethernet Ports
- Passive PoE Supported (DC Power Supported)
- Operation Modes:
  AP / Station / Station WDS / Access Point WDS / Router*

*Router function available via Manual configuration of WAN+LAN

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COMPEX MPS / MMS / MMJ SERIES

MPS344 AC1200

Wireless N300 + AC867 Outdoor Multi-Function Dual Concurrent AP

Features

- Wireless-AC Dual Band concurrent provide the next generation speed for simultaneous HD video streaming and large file sharing
- Dual Radio concurrent configuration optimised for high bandwidth applications
- Weatherproof design
- Dual-polarisation Antenna provides extensive coverage and effective noise immunity
- Multiple operation modes for flexible outdoor deployment
- High transmit power (Up to 30dBm) provide extensive coverage and high speed rate
- Support up to 16 SSIDs (8 Per Radio)
- Chillispot captive portal Hotspot technology supported
- Powered by CompexWRT or OpenWRT Firmware

Specifications

- 300Mbps (2.4Ghz) + 867Mbps (5Ghz)
- Integrated 6.5dBi at 2.4Ghz + 7dBi at 5Ghz Dual-polarisation antenna
- Weatherproof Enclosure
- 2x Gigabit Ethernet Ports
- 24 - 48V Propriety PoE
- Operation Modes:
  AP / Station / Station WDS / Access Point WDS

MMS344 AC900

Wireless 5Ghz AC900 Long Range Outdoor Multi-Function AP

Features

- Wireless-AC provide the next generation speed for simultaneous HD video streaming and large file sharing
- Weatherproof design
- Powered by 533Mhz Qualcomm Atheros AR9344 WiSoC
- High gain 19dBi polarisation antenna featured high transmit power to serve maximum speed over long range
- Multiple operation modes for flexible outdoor deployment
- High transmit power (Up to 30dBm) provide extensive coverage and hgh speed rate
- Features Distance Adjustment for long range transmison
- Support up to 8 SSIDs
- Chillispot captive portal Hotspot technology supported
- Powered by CompexWRT or OpenWRT Firmware

Specifications

- 2x2 MIMO 867Mbps (5Ghz)
- Integrated 19dBi at 5Ghz polarisation antenna
- Weatherproof Enclosure
- 2x Gigabit Ethernet Ports
- 24 - 48V Propriety PoE
- Operation Modes:
  AP / Station / Station WDS / Access Point WDS

MMJ344 Plus AC1200

Wireless N300 + AC867 Long Range Outdoor Multi-Function Dual Concurrent AP

Features

- Wireless-AC Dual Band concurrent provide the next generation speed for simultaneous HD video streaming and large file sharing
- Dual Radio concurrent configuration optimised for high bandwidth applications
- Weatherproof design
- High gain 17dBi at 5Ghz polarisation + 2x 7dBi at 2.4G Omni Dipole array antenna for maximum coverage over outdoor range
- High transmit power (Up to 30dBm) provide extensive coverage and hgh speed rate
- Support up to 16 SSIDs (8 Per Radio)
- Chillispot captive portal Hotspot technology supported
- Powered by CompexWRT or OpenWRT Firmware

Specifications

- 300Mbps (2.4Ghz) + 867Mbps (5Ghz)
- Integrated 2 x 7dBi at 2.4Ghz Omni Dipole array antenna
- Integrated 1 x 17dBi at 5Ghz Dual-polarisation antenna
- Weatherproof Enclosure
- 2x Gigabit Ethernet Ports
- 24 - 48V Propriety PoE
- Operation Modes:
  AP / Station / Station WDS / Access Point WDS

MMJ344 (Single Radio)
AC867 5Ghz Version Available

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MML342 N300

**Wireless N300 5Ghz Outdoor
Multi-Function AP**

Features

- High Speed transmission of 300Mbps
- Weatherproof design
- High gain 15dBi at 5Ghz dual polarisation antenna for considerable coverage over outdoor range
- Up to 26dBm of output power
- Support up to 8 SSIDs
- Chillispot captive portal Hotspot technology supported
- Powered by CompexWRT or OpenWRT Firmware

Specifications

- 300Mbps (5Ghz)
- Integrated 1 x 15dBi at 5Ghz Directional Dual-polarisation antenna
- Weatherproof Enclosure
- 2x 10/100 Ethernet Ports
- 12 - 24V Propriety PoE
- Operation Modes:
  AP / Station / Station WDS / Access Point WDS

MMJ342 Plus N600

**Wireless N300 2.4Ghz + 5Ghz Long Range Outdoor
Multi-Function Dual Concurrent AP**

Features

- Dual Band Wireless N provide high speed for simultaneous communication
- Dual Radio concurrent configuration optimised for high bandwidth applications
- Weatherproof design
- High gain 17dBi at 5Ghz polarisation + 2x 7dBi at 2.4G Omni Dipole array antenna for maximum coverage over outdoor range
- Up to 26dBm of output power
- Support up to 16 SSIDs (8 Per Radio)
- Chillispot captive portal Hotspot technology supported
- Powered by CompexWRT or OpenWRT Firmware

Specifications

- 300Mbps (2.4Ghz + 5Ghz)
- Integrated 2 x 7dBi at 2.4Ghz Omni Dipole array antenna
- Integrated 1 x 17dBi at 5Ghz Dual-polarisation antenna
- Weatherproof Enclosure
- 2x 10/100 Ethernet Ports
- 24V Propriety PoE
- Operation Modes:
  AP / Station / Station WDS / Access Point WDS

MMJ342 N300

**Wireless N300 5Ghz Long Range Outdoor
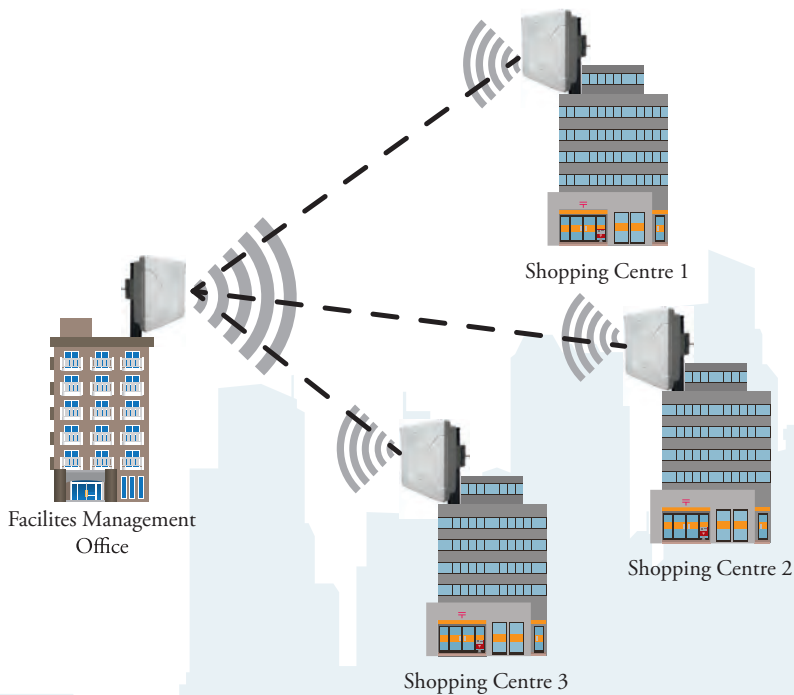Multi-Function AP**

Features

- 5Ghz Wireless Technology
- Weatherproof design
- High gain 17dBi at 5Ghz dual-polarisation antenna for considerable coverage over outdoor range
- Up to 26dBm of output power
- Support up to 8 SSIDs
- Chillispot captive portal Hotspot technology supported
- Powered by CompexWRT or OpenWRT Firmware

Specifications

- 300Mbps (5Ghz)
- Integrated 1 x 17dBi at 5Ghz Dual-polarisation antenna
- Weatherproof Enclosure
- 2x 10/100 Ethernet Ports
- 24V Propriety PoE
- Operation Modes:
  AP / Station / Station WDS / Access Point WDS

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Example of a Mall Facilites Management Hub

Facilites Management Office

Shopping Centre 1

Shopping Centre 2

Shopping Centre 3

*Actual Configuration subjected to environment conditions.
Illustration for reference only

OUTDOOR POINT TO POINT
MMS / MMJ / MML Series

Long Range Outdoor Multi-Function AP Series

Model	Standard	Optimal Use	Distance
MMJ344 Plus	802.11ac	PtP, CPE	10KM
MMJ344	802.11ac	PtP	10KM
MMJ342 Plus	802.11n	PtP, CPE	8KM
MMJ342	802.11n	PtP	8KM
MMS344	802.11ac	PtP	15KM
MML342	802.11n	PtP	5KM
MPS344	802.11ac	Coverage AP	150 Metres

INDOOR ACCESS POINT
MMZ344 / 558 / 531

Indoor Multi-Function AP Series

Model	Standard	Speed	Users	PoE
MMZ531	802.11n	300Mbps	40	802.3af
MMZ344	802.11ac	867Mbps	40	802.3af
MMZ558	802.11ac	1300Mbps	60	802.3af

Power over Ethernet (PoE)

The MMZ Series is compatible with PoE Switches supporting 802.3af and 802.3at standards allowing seamless wireless network expansion.

Wireless Distribution System (WDS)

The MMZ Series can be configured to wirelessly expand networks even further through the WDS feature available on the CompexWRT software

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Outdoor Access Point Overview

MODEL	MMJ344 Plus	MMJ344	MMS344
Wi-Fi RATE	AC867 + N300Mbps	AC867Mbps 5Ghz	AC867Mbps 5Ghz
SIMULTANEOUS DUAL BAND	✓	✗	✗
STANDARDS	802.11 a/b/g/n/ac	802.11 a/n/ac	802.11 n/ac
HARDWARE SPECIFICATIONS			
WiSoC	QCA9344	QCA9344	QCA9344
ETHERNET	2 x 10/100/1000Mbps	2 x 10/100/1000Mbps	2 x 10/100/1000Mbps
ANTENNA	Integrated 1 x 17dBi 5Ghz Dual-polarisation 2 x 7dBi 2.4Ghz Omni Dipole array antenna	Integrated 1 x 17dBi 5Ghz Dual-polarisation antenna	Integrated 1 x 19dBi 5Ghz Polarisation antenna
MODE	AP / Station / Station WDS / Access Point WDS		
POWER OPTIONS	24-48V Propriety PoE or 802.3af/at[1]		
PWR CONSUMPTION	18W	18W	18W
WEATHERPROOF	✓	✓	✓
SOFTWARE SPECIFICATIONS			
VLAN	✓	✓	✓
HOTSPOT	✓	✓	✓
802.1x / WEP /WPA / WPA2	✓	✓	✓

MODEL	MPS344	MMJ342 Plus	MMJ342	MML342
Wi-Fi RATE	AC867 + N300Mbps	N300Mbps	N300Mbps 5Ghz	N300Mbps 5Ghz
SIMULTANEOUS DUAL BAND	✓	✓	✗	✗
STANDARDS	802.11 a/b/g/n/ac	802.11 a/b/g/n	802.11 a/n/ac	802.11 a/n/ac
HARDWARE SPECIFICATIONS				
WiSoC	QCA9344	QCA9342	QCA9342	QCA9342
ETHERNET	2 x 10/100/1000Mbps	2 x 10/100Mbps	2 x 10/100Mbps	2 x 10/100Mbps
ANTENNA	Integrated 2 x 6.5dBi 2.4Ghz Dual-polarisation 2 x 7dBi at 5Ghz Dual-polarisation antenna	Integrated 1 x 17dBi 5Ghz Dual-polarisation 2 x 7dBi 2.4Ghz Omni Dipole array antenna	Integrated 1 x 17dBi 5Ghz Dual-polarisation antenna	Integrated 1 x 15dBi 5Ghz Directional Dual-polarisation antenna
MODE	AP / Station / Station WDS / Access Point WDS			
POWER OPTIONS	24 - 48V Propriety PoE or 802.3af/at[1]	12 - 24V Propriety PoE		
PWR CONSUMPTION	18W	8W	5.5W	5.5W
WEATHERPROOF	✓	✓	✓	✓
SOFTWARE SPECIFICATIONS				
VLAN	✓	✓	✓	✓
HOTSPOT	✓	✓	✓	✓
802.1x / WEP /WPA / WPA2	✓	✓	✓	✓

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For any further enquiry please contact us at sales@compex.com.sg

MODEL	MMZ344	MMZ558	MMZ531
Wi-Fi RATE	AC1300 + N300Mbps	AC867 + N450Mbps	N300Mbps
SIMULTANEOUS DUAL BAND	✓	✓	✓
STANDARDS	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n
HARDWARE SPECIFICATIONS			
WiSoC	QCA9344	QCA9558	QCA9531
ETHERNET	2 x 10/100/1000Mbps	2 x 10/100/1000Mbps	2 x 10/100Mbps
ANTENNA	Integrated 2x 4dBi 2.4Ghz + 2 x 5dBi 5Ghz Smart Pyramidal Omni-directional antenna	Integrated 3 x 4dBi 2.4Ghz + 3 x 5dBi 5Ghz Smart Pyramidal Omni-directional antenna	Integrated 2 x 4dBi 2.4Ghz Smart Pyramidal Omni-directional antenna
MODE	AP / Station / Station WDS / Access Point WDS / Router*		
POWER OPTIONS	48V 802.3af/at + DC Jack		
CEILING MOUNT DESIGN	✓	✓	✓
SOFTWARE SPECIFICATIONS			
VLAN	✓	✓	✓
VLAN ETHERNET TRUNK	✓	✓	✓
VIRTUAL AP SUPPORTED	16	16	8
TELNET / SSH	✓	✓	✓
PPPoE	✓	✓	✓
dB TRANSMISSION POWER CONTROL	✓	✓	✓
HOTSPOT	✓	✓	✓
802.1x / WEP /WPA / WPA2	✓	✓	✓

*Router function available via Manual configuration of WAN+LAN

About
Compex Systems Pte Ltd

We are Compex Systems, wholly owned by Powermatic Data Systems Ltd (SGX Singapore). From its inception in 1987, Compex has been specializing in product design and manufacturing and delivering superior OEM/ODM/JDM services in wireless communications. Dedicated to innovative design for RF wireless modules, host boards, and antenna, Compex also provides software design, product testing and certification, as well as fully customized design and manufacturing. Our wireless communications solution and services encompass both indoor and outdoor mesh network, hotspot, and subscriber units.

Leveraging our expertise in wireless system design, Compex strives to meet wide-ranging development demands. Having worked with Qualcomm Atheros over 10 years, we offer innovative hardware, software, and manufacturing capabilities through industry-specific design, engineering, and services tailored to the market needs.

Compex is the only Qualcomm Atheros Authorized Design Center (ADC) in East and South East Asia. We are ideally situated to support OEMs and manufacturers in this time zone. With our 2 locations in Singapore and Suzhou, we have the added advantage of being physically closer to our customers, making support much easier.

ABOUT COMPEX SYSTEMS

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Compex System is wholly owned by Powermatic Data Systems Ltd (SGX Singapore).

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