



AIRETOS E61 CLASS



PCI EXPRESS
E61
CLASS



Fully featured WAVE2 choice for the computing market
 Dual Band with Multi User MIMO support
 Bluetooth 5.0 Compliance with Class I mode, ANT+ and BLE
 Extended Grade Variant X; Industrial range operating temperatures
 Modular World Regulatory Certification (50+ domains)

PRE-APPROVED ANTENNA SERIES

WAPH Internal, PCB Dipole < 2.5db
WAFH Internal, FPC Dipole < 3db
WAMF Internal, F-Type PIFA < 3db
WAND* External, Omni < 5db
WEAD External, PCB Dipole < 5db
 * certified On-Demand
 † list may vary by domain



TECHNICAL SUMMARY

Chipset	Qualcomm-Atheros QCA6174A-5
Standard	IEEE 802.11ac/abgn Wi-Fi combo with BT5.0
Data Transfer Rates	Up to 867Mbps (dynamic)
Industrial Reference	Qualcomm Atheros reference design QNFA364A (QCA P/N NFA364A)
Communications Interface	WLAN via PCI Express Standard 2.1 host I/O + Bluetooth via USB PIN mapping
Antenna Type	Two on board MHF4 connectors
RF Output Power, per chain	up to 20dBm
RF Output Power, combined	up to 23dBm
Industry Standards	Wi-Fi CERTIFIED Direct®, Wi-Fi CERTIFIED Miracast®
Power Consumption	405 mA *during Transmit Packet Test HT40
Operating Temperature	UP TO -40 ~ +85 Celsius
Operating System	Windows, Linux, macOS, Android

COMMERCIAL SUMMARY

Year Released	2017	Expected Lifespan	2025+
Production Status	MP	Effective Lead-time	< 8 weeks
Samples Availability	Online & On-Request	Regulatory Approvals	World

VARIANT MPNs	Chains	Grade	Form Factor	MSRP
AFX-QCA6174-NC	2x2	Commercial	[R] Regular 2230, m.2 A+E Key (NGFF)	\$ 24.95
AFX-QCA6174-NX	2x2	Extended	[R] Regular 2230, m.2 A+E Key (NGFF)	\$ 29.95
ES AFX-QCA6174-NC-Fkit	2x2	Commercial	[F] 3042, m.2 B+M Key (NGFF)	\$ 32.95
ES AFX-QCA6174-NX-Fkit	2x2	Extended	[F] 3042, m.2 B+M Key (NGFF)	\$ 37.95
AFX-QCA6174-NC-Xkit	2x2	Commercial	[X] Full-mini mPCIe	\$ 34.95
AFX-QCA6174-NX-Xkit	2x2	Extended	[X] Full-mini mPCIe	\$ 37.95