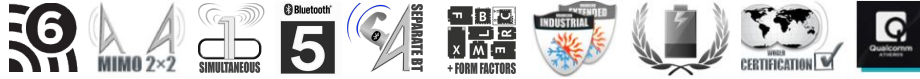




AIRETOS E63 CLASS



Fully featured Wi-Fi 6 for the computing, enterprise and industrial markets
 Dual Band Simultaneous (DBS) with dual MAC
 Bluetooth 5.1 on a dedicated antenna with Class I mode, ANT+ and BLE
 Choice of antenna connectors and form factors
 Up to full Industrial range of operating temperatures
 Modular Regulatory Certifications (FCC, ISED, CE, Japan)

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
 - WACI** Internal, SMT Chip < 3db
- * certified On-Demand
 † list may vary by domain



TECHNICAL SUMMARY

Chipset	Qualcomm QCA6391, with IC-external FEMs (RF360)
Standard	IEEE 802.11ax/ac/abgn dual band simultaneous Wi-Fi combo with BT5.1
Data Transfer Rates	Up to 1775Mbps (dynamic)
Industrial Reference	Based on Qualcomm reference design (Hastings)
Communications Interface	WLAN via PCI Express Standard 2.1 host I/O + Bluetooth via UART PIN mapping
Antenna Type	Three on board connectors, two for Wi-Fi and a separate one for BT. Choice of U.FL or MHF4
RF Output Power, per chain	up to 21.5dBm
RF Output Power, combined	up to 24.5dBm
Industry Standards	Wi-Fi CERTIFIED Direct [®] , Wi-Fi CERTIFIED Miracast [®]
Power Consumption	TBD
Operating Temperature	UP TO -40 ~ +90 Celsius
Operating System	Windows, Linux, macOS, Android

COMMERCIAL SUMMARY

Year Released	2020	Expected Lifespan	2027+
Production Status	MP	Effective Lead-time	< 39 weeks
Samples Availability	On-Request	Regulatory Support	Tier 1

VARIANT MPNs	Chains	Grade	Form Factor	MPQ	SPQ	MRSP
ACB-QCA6391-NX1 / 4	2x2+1	Extended	(B) CoB, 2x2 + 1 for BT5, IPEX or MHF4 (Chip-on-Board)			\$ 29.95
ACB-QCA6391-NI1 / 4	2x2+2	Industrial	(B) CoB, 2x2 + 1 for BT5, IPEX or MHF4 (Chip-on-Board)			\$ 34.95
AFW-QCA6391-NX1 / 4	2x2+1	Extended	(W) E-key M.2 3030 (3032)			\$ 34.95
AFW-QCA6391-NI1 / 4	2x2+1	Industrial	(W) E-key M.2 3030 (3032)			\$ 39.95
AFF-QCA6391-NX1 / 4	2x2+1	Extended	(F) B-key M.2 3042			\$ 34.95
AFF-QCA6391-NI1 / 4	2x2+1	Industrial	(F) B-key M.2 3042			\$ 39.95
AEX-QCA6391-NX1 / 4	2x2+1	Extended	[X] Full-size miniPCIe			\$ 34.95
AEX-QCA6391-NI1 / 4	2x2+1	Industrial	[X] Full-size miniPCIe			\$ 39.95