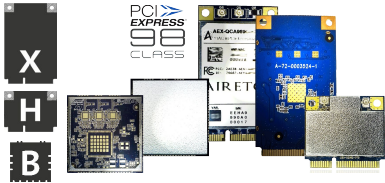




## AIRETOS E98 CLASS



IEEE 802.11ac Dual Band (backwards compatible with 802.11abgn)  
 Up to Industrial operating temperature grade (-40°C ~ 85°C)  
 Up to three antenna connectors, for MIMO 3Tx3R (3 Transmit & 3 Receive) technology  
 Transmission Beamforming (TxBF) with enhanced Tx power accuracy and high aggregate power  
 PCI-E 2.0 standard specification with up to 4 Gbit/s bandwidth (backwards compatible to 1.x)

## 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

<b>Chipset</b>	Qualcomm-Atheros QCA9880/82/90/92
<b>Standard</b>	IEEE 802.11ac/abgn
<b>Data Transfer Rates</b>	Up to 1300Mbps (dynamic)
<b>Industrial Reference</b>	based on Qualcomm Atheros reference design XB140 (+ new SKYWORKS FEM)
<b>Communications Interface</b>	WLAN via PCI Express Standard 2.1 host I/O
<b>Antenna Type</b>	up to three I-PEX / U.FL connectors
<b>RF Output Power, per chain</b>	up to 24dBm
<b>RF Output Power, combined</b>	up to 29dBm
<b>Industry Standards</b>	Wi-Fi CERTIFIED Direct <sup>®</sup> , Wi-Fi CERTIFIED Miracast <sup>®</sup>
<b>Power Consumption</b>	from 1187 mA *during Transmit Packet Test HT40
<b>Operating Temperature</b>	UP TO -40 ~ +85 Celsius
<b>Operating System</b>	Linux, macOS, Android

### COMMERCIAL SUMMARY

<b>Year Released</b>	2013	<b>Expected Lifespan</b>	2023+
<b>Production Status</b>	MP	<b>Effective Lead-time</b>	> 11 weeks
<b>Samples Availability</b>	Online & On-Request	<b>Regulatory Support</b>	FCC IC CE

	VARIANT MPNs	Chains	Grade	Form Factor	MPQ	SPQ	MRSP
<b>BTO</b>	AEH-QCA9882-NX	2x2	Extended	[H] Half-mini mPCIe			\$ 34.95
<b>BTO</b>	AEH-QCA9892-NI	2x2	Industrial	[H] Half-mini mPCIe			\$ 59.95
	AEX-QCA9882-NX	2x2	Extended	[X] Full-mini mPCIe			\$ 39.95
	AEX-QCA9892-NI	2x2	Industrial	[X] Full-mini mPCIe			\$ 64.95
	AEX-QCA9880-NX	3x3	Extended	[X] Full-mini mPCIe			\$ 49.95
	AEX-QCA9890-NX	3x3	Extended	[X] Full-mini mPCIe			\$ 64.95
	AEX-QCA9890-NI	3x3	Industrial	[X] Full-mini mPCIe			\$ 74.95
	AEB-QCA9882-NX	2x2	Extended	[B] Chip-on-Board (CoB)			\$ 39.95
	AEB-QCA9892-NI	2x2	Extended	[B] Chip-on-Board (CoB)			\$ 64.95
	AEB-QCA9880-NX	3x3	Extended	[B] Chip-on-Board (CoB)			\$ 49.95
	AEB-QCA9890-NX	3x3	Extended	[B] Chip-on-Board (CoB)			\$ 64.95
	AEB-QCA9890-NI	3x3	Industrial	[B] Chip-on-Board (CoB)			\$ 74.95