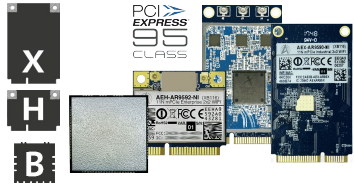




AIRETOS E95 CLASS



Up to True Industrial Grade, for severe weather operation (-40 ~ 85°C)
 Dual Band (DB), 2.4Ghz + 5 Ghz wireless connection up to 450Mbps
 Up to 3 antenna connectors, for MIMO 3Tx3R
 Enhanced Tx Power up to 25dBm & TxBF
 Transmission Beamforming (TxBF)

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 AR9580/90/92
Standard	IEEE 802.11abgn Wi-Fi
Data Transfer Rates	Up to 450Mbps (dynamic)
Industrial Reference	Based on Qualcomm Atheros reference design XB116 (+ new SKYWOKS FEM)
Communications Interface	WLAN via PCI Express Standard 1.1 host I/O
Antennas	up to Three I-PEX / U.FL connectors
RF Output Power, per chain	up to 21dBm
RF Output Power, combined	up to 25dBm
Industry Standards	Wi-Fi CERTIFIED Direct [®] , Wi-Fi CERTIFIED Miracast [®]
Power Consumption	900 mA *during Transmit Packet Test HT 40
Operating Temperature	UP TO -40 ~ +85 Celsius
Operating System	Windows, Linux, macOS, Android

COMMERCIAL SUMMARY

Year Released	2013	Expected Lifespan	2023+
Production Status	MP	Effective Lead-time	12 weeks
Samples Availability	Online & On-Request	Regulatory Support	FCC IC CE RED

	VARIANT MPNs	Chains	Grade	Form Factor	MPQ	SPQ	MRSP
ES	AEH-AR9592-NX	2x2	Industrial	[H] Half-mini mPCle			\$ 54.95
	AEX-AR9592-NI	2x2	Industrial	[X] Full-mini mPCle			\$ 59.95
	AEX-AR9580-NX	3x3	Extended	[X] Full-mini mPCle			\$ 49.95
	AEX-AR9590-NX	3x3	Extended	[X] Full-mini mPCle			\$ 59.95
	AEX-AR9590-NI	3x3	Industrial	[X] Full-mini mPCle			\$ 69.95
BTO	AEB-AR9592-NX	2x1	Extended	[B] Chip-on-Board (CoB)			\$ 54.95
BTO	AEB-AR9592-NI	2x2	Industrial	[B] Chip-on-Board (CoB)			\$ 59.95
BTO	AEB-AR9580-NX	3x3	Extended	[B] Chip-on-Board (CoB)			\$ 49.95
BTO	AEB-AR9590-NX	3x3	Extended	[B] Chip-on-Board (CoB)			\$ 59.95
BTO	AEB-AR9590-NI	3x3	Industrial	[B] Chip-on-Board (CoB)			\$ 69.95