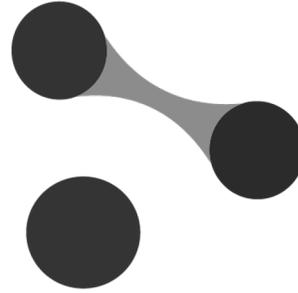


TECH DESIGN
VOXMICR



INNOVATIONS :
Wi-Fi 6e Modules

Distributed by:



www.texim-europe.com

AIRETOS[®]
PCI 
EXPRESS[®]
20
CLASS





Wi-Fi ADVANCES IN SYNERGY

WI-FI 6/6E, in fine coexistence with new cellular protocols, re-defines high throughput wireless data delivery.



THE LEADING **WI-FI 6E LGA CoB**

Fully leveraging QUALCOMM's Wi-Fi technological leadership, VOXMICRO introduces the first complete Chip-on-Board modules.



With the QCA206x, the HastingsPrime and the Verona reference designs, QUALCOMM maintains its track-record in delivering game-changing technologies. The QCA2066 SoC for example is a high performance, **fully-featured Wi-Fi 6E Chip** that provides **resilient tri-band 802.11ax combo** with a rich, outperforming implementation of the new **Bluetooth 5.2** into a single die.



VOXMICRO's AIRETOS® E20 Class sets an industry benchmark by marrying state-of-the-art technologies with **extended features** and cutting-edge, **flexible design**. The E20 Class aids adoption with module variants that widely cover **form factors, operating grades and antenna designs**. All complemented by extensive regulatory and design support.

Wi-Fi 6/6E
(802.11 ax)

Up to
3.0 Gbps

WPA3
security

Target
Wake Time

1024 QAM &
8-stream
sounding



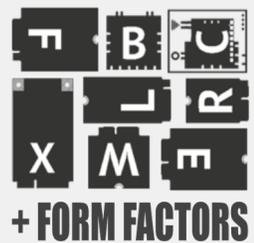
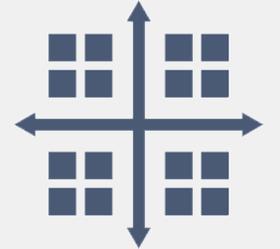
BT 5.2
integration

Dual-Band
Simultaneous (DBS)
2.4 + 5 or 6 GHz

UL MU-MIMO for
8x Tput gain vs. single user

UL OFDMA
for lower latency

Tri-Band 2.4 + 5 + 6 GHz
& 160MHz Channels





FIRM EVOLUTION

Drawing from the innovation experience of the E63 Class, the E20 Class is an all-rounder upgrade, including commercial security.

VOXMICR



AIRETOS[®]
PCI EXPRESS[®]
63
CLASS

AIRETOS[®]
PCI EXPRESS[®]
20
CLASS

- adds 6 GHz options
- adds 160 MHz channels
- adds BT USB option
- has EVB, HW tools and OSD/CLD/rich SDK
- has smaller, better design & thermal profile
- has stable, short lead-times

E20 CLASS FORM-FACTORS

Distributed by:



xx□-QCA206x-xNxx

SLOTTED:

Modules with standard-based edge-connectors

xF□-QCA206x-xNxx
m.2 PCI (NGFF)

“Narrow” 1630

“Regular” 2230

“Wide” 3030

“Full” 3042

“Long” 2242

xFW-QCA206x-xNxx

xFF-QCA206x-xNxx



Series W
E-Key



Series F
B-Key

xE□-QCA206x-xNxx
MiniPCI Express (mPCIe)

xEX-QCA206x-xNxx



Series X
Full-Mini, 30*50.95 mm

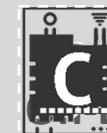
EMBEDDED:

SMDs, Surface Mount Devices [CoB, SiP]
& Modules on Carrier [MoC]



xCB-QCA206x-xNxx

Series B
LGA Chip-on-Board, 23*25 mm



xCx-QCA206x-xNxx

Demand Integrations
MoC: ODM Module-on-Carrier

EVALUATE / GO TO MARKET



Request for Information

Samples &
Evaluation Board

Open or licensed
drivers

Digital, mechanical, antenna &
regulatory support

Scheduling & supply channel support

EVB & Tools:

Available from January 30th, 2023

EV Board

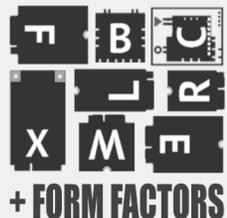
Socket

Distributed by:



CHANGE IT / BRAND IT

Customer-Open Module Making: implement new and custom features with confidence.



- Custom form factors
- Co-existence on-module
- Connectors and GPIOs
- Domains and BT configurations
- Finish and packaging



- New antenna types
- Further countries
- Testing driver implementations
- System level approvals
- Co-listing & co-sponsoring

Other digital, mechanical, firmware, system, integration or software projects? Reach out.

Own BRAND:
or White Label or Custom Re-Design.

BASIC MAC, label, boxing

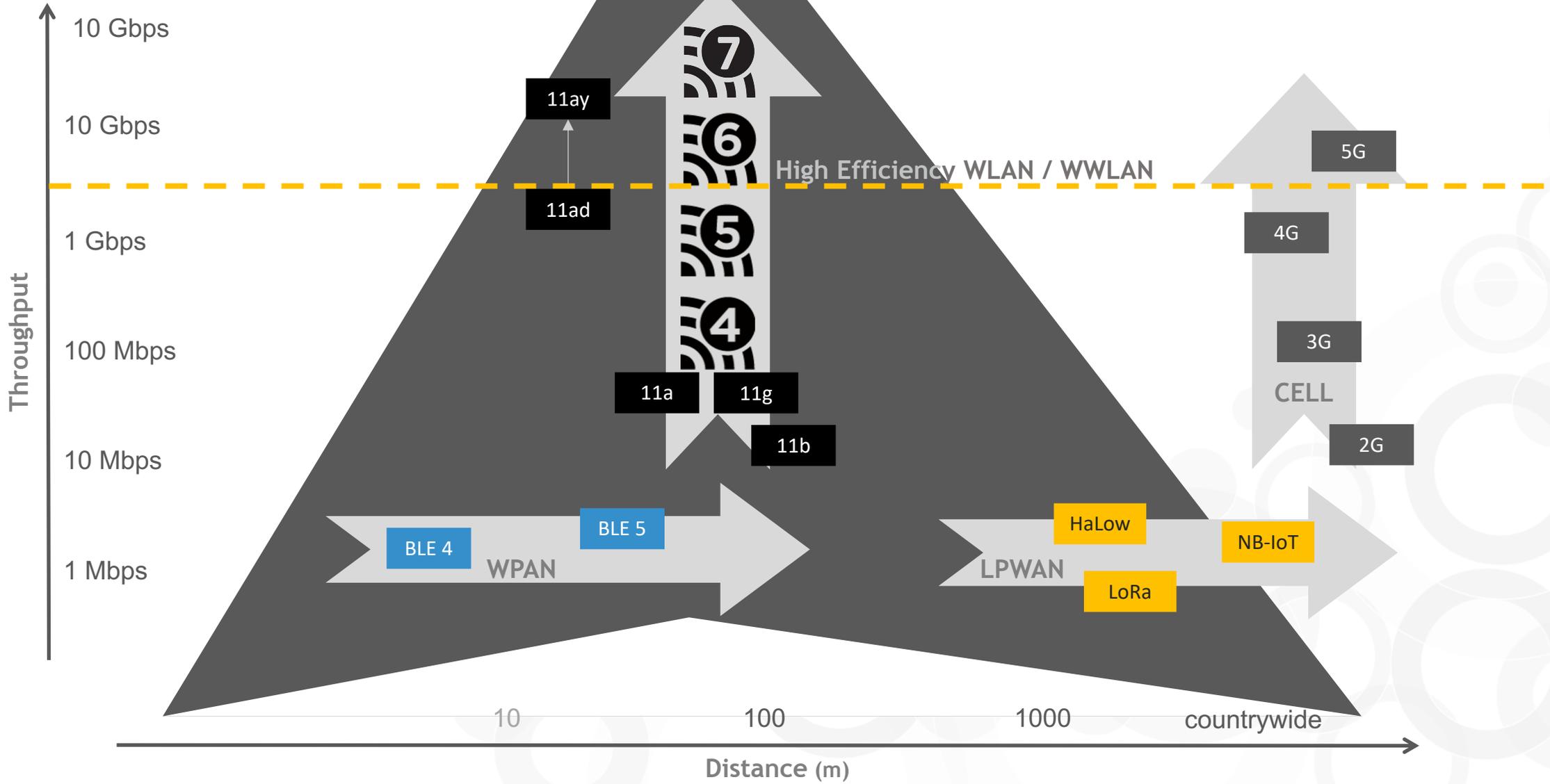
FULL Co-listing available



3

WIRELESS TRENDS ROADMAP

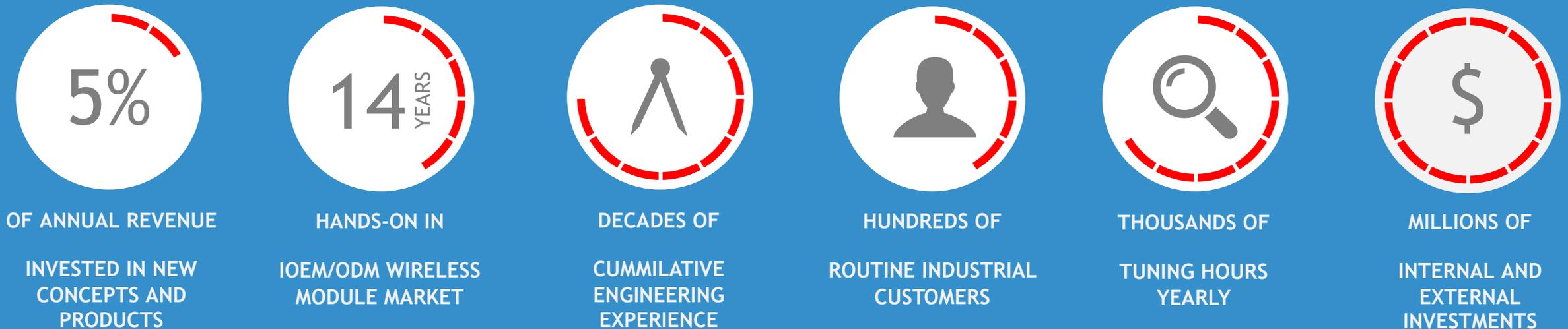
VOXMICRO's strategic roadmap that supports with agility current and upcoming wireless technologies and innovations



2

VOXMICRO'S VALUE PROPOSITION

A flexible, focused, audited and certified global Western module maker, a Qualcomm Advantage Network Partner with in-house RF engineering and deep expertise in the global wireless markets



We develop an extensive portfolio of products for industrial and consumer wireless applications and offer **wireless connectivity solutions** including a full range of socketed and soldered industrial grade modules leveraging Qualcomm's latest technologies, antennas for harsh environments, RF connectors, cable assemblies and RF fixtures.

Information Empowers: by delivering know-how, tools and abilities to design, to build and to sustain wireless connectivity deployments, we partake in the unstoppable progress of human civilizations and aid their balance with nature.

Distributed by:



At VOXMICRO, our vision is for a connected environment, where creativity is unleashed and freedom is delivered.



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