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IQ-8275

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The IQ-8275 is a part of the Qualcomm Dragonwing™ IQ8 Series Platform system-on-chips (SoCs), power-efficient compute and on-device AI, including GenAI, for industrial applications such as programmable logic controllers (PLCs), gateways, Edge AI boxes, human machine interfaces (HMI)s, and more. Alongside built-in reliability features, design flexibility, additional real-time cores, this SoC is capable of handling heavy workloads in the demanding industrial environments.

Software resources

📄 Qualcomm Linux

The software environment and key documents available for this product:
[Qualcomm Linux resources](#)

📄 Ubuntu on Qualcomm IoT Platforms

The software environment and key documents available for this product:
[Ubuntu on Qualcomm IoT resources](#)

Development hardware

The IQ-8275 evaluation kit (EVK) enables developers, OEMs, and ODMs to design and test their solutions. The kit is integrated with standard interfaces and connectors, mezzanine expandability, and wireless connectivity, powered by the industrial-grade Qualcomm IQ-8275 processor.



IQ-8275 evaluation kit (EVK)

Full reference design solution for setup, development, and testing.
[📄 Learn more](#)

Chipset ecosystem

📄 IQ-8275

- 📄 Data sheet
- 📄 Hardware design guide
- 📄 Technical reference manual
- 🔍 [All IQ-8275 docs](#)

🔌 Power managers

- 📄 PMM8620AU data sheet
- 📄 PMM8620AU design guidelines
- 🔍 [All power manager docs](#)

📶 Wi-Fi Bluetooth combo devices*

- 📄 QCA6698AQ data sheet
- 📄 QCA6698AQ design guidelines
- 🔍 [All Wi-Fi Bluetooth combo device docs](#)
- * (through modules only)

📶 Ethernet switches

- 📄 QPS615 data sheet
- 📄 QPS615 hardware design guide
- 📄 QPS615 technical reference manual
- 🔍 [All ethernet switch docs](#)

More resources

📄 Design resources

- 🔍 [Thermal models](#)
- 🔍 [Electrical models](#)
- 🔍 [All design resources](#)

📄 Application notes

- 🔍 [Power](#)
- 🔍 [Thermal](#)
- 🔍 [PDN](#)
- 🔍 [All application notes](#)

🔧 Tools

- 🏠 [PDN checker](#)
- 🏠 [Layout checker](#)
- 🏠 [DDR test tool](#)
- 🏠 [IO pin configuration tool](#)

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