

**High-speed wireless control, broadband access and data conversion powered by the best-fit radio technology for your application.**

# Edge Family



## Key Features

- ▶ Available with multiple radio chipsets
  - (1) robust industrial NXP Wi-Fi 6E
  - (2) high-performance Qualcomm Wi-Fi 7
  - (3) low-latency Nordic DECT NR+
  - (4) real-time TI / R3 EchoRing
- ▶ LAN, CAN and GPIO connectivity
- ▶ Fully managed remote configuration and monitoring (gNMI & NETCONF)
- ▶ IoT edge data aggregation and forwarding (MQTT)
- ▶ On-board secure element
- ▶ Security compliance with IEC 62443
- ▶ Power-saving sleep modes:
  - (1) wake up on time
  - (2) wake up on GPI event
  - (3) wake up on LAN / WLAN
- ▶ CAN gateway and bridge with translation
- ▶ Signaling power-saving status via GPO
- ▶ Two 1-Gigabit Ethernet ports (one TSN-capable)

## Made for AGVs, AMRs and more

Thanks to their compact design and exclusively front-facing interfaces, the Edge devices are ideally suited for small automated guided vehicles (AGVs) and autonomous mobile robots (AMRs).

The platform is also suitable for general networking of machines and mobile equipment such as cranes, monorail systems, and more.

Each member of the Edge family features advanced power management capabilities that optimize operating cycles and reduce power consumption. OEMs thus benefit from an application-optimized selection of wireless technologies.



# TECHNOLOGY OVERVIEW

# Edge Family



**Edge X**



**Edge 7**



**Edge D**



**Edge E**

Radio	Edge X	Edge 7	Edge D	Edge E
<b>Technology</b>	<b>Wi-Fi 6E™</b>	<b>Wi-Fi 7™</b>	<b>DECT™ NR+</b>	<b>EchoRing™</b>
Chipset	NXP AW693	Qualcomm WCN7851	Nordic nRF9151	TI WL1807 MOD
Frequency / Channels		2.4 GHz: 1-13 5 GHz: 36-177 6 GHz: 1-233	1,9 GHz	5.8 GHz: 149-173
Channel bandwidths	20 MHz, 40 MHz and 80 MHz	20 MHz, 40 MHz, 80 MHz and 160 MHz	1.728 MHz	20 MHz
Access point function		Yes (μAP)	Yes (FT mode)	Yes (Anchor)
Client function		Yes	Yes (PT mode)	Yes
Roaming support		<b>Standard:</b> Open System, OWE, WPA2-PSK, WPA3-SAE, EAP Fast transition: FT-PSK, FT-SAE, FT-EAP <b>Optimized:</b> IEEE 802.11k,v with configurable thresholds	optimized DECT NR+ roaming	Seamless triggered roaming via EchoRing Runtime Control Interface (ERCI)
Max. output power		19 dBm	23 dBm	Limited to 14 dBm e.i.r.p.

## Interfaces

Ethernet	2x 10/100/1000 Mbit/s RJ45 socket (one TSN-capable)
Power supply	24 VDC (10-32 VDC), according to ISO 16750-2 E with max power consumption of 34W (GPO internally powered)
GPI	4x IN, IEC/EN 61131-2 compliant
GPO	4x OUT, 24V capable with a max. current of 500 mA per GPO
CAN	2x CAN
Antenna connectors	2x RP-SMA male socket, requires 2x RP-SMA female connectors on the antenna (EDGE X/7/E) 1x RP-SMA male socket, requires 1x RP-SMA female connectors on the antenna (EDGE D)

## Mechanical construction

Dimensions	27 × 98 × 148 mm
Mounting	Wall mounting, DIN rail mounting
Weight	510 g
Protection class	IP40

## Availability

Certified Product	<b>Feb. 2026</b>	2nd half 2026	2nd half of 2026	2nd half of 2027
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**Disclaimer notice:** Please note that the features and specifications listed in the table and on the front page may be subject to change before official release, as the product family is currently under development and optimization to ensure optimal performance.