

Ultra-Reliable MCUs

## Where to Use Ultra-Reliable Processors



Market Segment	Application	Product
Vision for industrial safety	Detect when a person is not in an allowed area	MPC567xK, MPC577xK—radar and vision
Industrial	Safest table saw	S12ZVM / MPC560xP—motor control
Industrial	High precision drills	S12ZVM / MPC560xP
Industrial	Industrial robots (motor control)	S12ZVM (BLDC), S12VR (DC)
Industrial	Solar panel inverters	S12ZVM—power conversion, communication
Industrial	Eolic generators	MPC56xxx, MPC57xxx-motor control
Marine	Marine instrument cluster	S12VH / MPC560xS / MPC564xR / MAC57D5x—gauges
Marine	Engine management	MPC56xxx, MPC57xxx
Construction equipment / vehicles	Instrument cluster	S12VH / MPC560xS / MPC564x/ MAC57D5x—gauges
Construction equipment / vehicles	Engine management	MPC56xxx, MPC57xxx
Construction equipment / vehicles	Obstacle / object recognition	MPC567xK, MPC577xK
Industrial	Electricity gasoline / diesel generators	MPC56xxx, MPC57xxx
Industrial / building automation	Elevators / lifts	S12VH / MPC560xS / MPC564xR / MAC57D5x- Display MPC56xxx, MPC57xxx—motor control
Industrial / building automation	Industrial gate control systems	S12(X)s, S12G
Industrial	Computer numerically controlled (CNC) machines	S12ZVM/ S12VR—motor control MPC564xR / MAC57D5x—graphical user interface
Medical	Nuclear magnetic resonance equipment	MPC56xx and MPC57xx for engine management and safety application
Medical	Insulin pumps	S12ZVM
Medical	Eye surgery equipment (LASIK)	MPC57xxx—functional safety IEC 61508
Demolition	Targeted demolitions	Vision processing and motor control products
Industrial	Oil drilling equipment	Vision processing and motor control products
Industrial	Welding equipment	MPC57xxx—functional safety IEC 61508
Agriculture	Instrument cluster	S12VH / MPC560xS / MPC564xR / MAC57D5x
Agriculture	Object / obstacle detection	S12ZVL—ultrasonic sensing, MPC577xK—vision
Agriculture	Engine management	MPC56xxx, MPC57xxx
Agriculture	Blind spot detection	S12ZVL—ultrasonic sensing, MPC577xK—vision
Medical	Dialysis equipment	S12ZVM—motor control, S12VH / MPC560xS / MPC564xR / MAC57D5x
Medical	Motor control for automatic wheelchair	S12ZVM—motor control, S12VH / MPC560xS / MPC564xR / MAC57D5x—display