

Maxim integrated Go-IO PLC Reference Design



PARTS OVERVIEW

Ref design part number	Description	Sub ref design part included	Description	Parts included	Qty x board	Description
MAXREFDES212#	Go-IO Industrial IoT Reference Design Kit includes: - MAXREFDES215# - MAXREFDES211# - MAXREFDES200# - 24V Power adapter	MAXREFDES215#	GO-IO Industrial IoT backplane (carrier board)	MAX17681	1	4.5V to 42V Input, High-Efficiency, Iso-Buck DC-DC Converter
				MAX17608	3	4.5V to 60V, 1A Current Limiter with OV, UV, and Reverse Protection
				MAX32630	1	Ultra-Low Power, High-Performance Arm Cortex-M4 with FPU Based MCU
		MAXREFDES211#	Go-IO industrial IoT Application Processor Board	MAX17502	1	60V, 1A, Ultra-Small, High-Efficiency, Synchronous Step-Down DC-DC Converter
				MAX1806	2	500mA, Low-Voltage Linear Regulator
				MAX22192	1	Octal Industrial Digital Input with Diagnostics and Digital Isolation
		MAXREFDES200#	Go-IO Factory Automation Module	MAX14483	1	6-Channel, Low-Power, 3.75kVRMS SPI Digital Isolator
				MAX14130	2	4-Channel, 1kVRMS, 2.75kVRMS, and 3.75kVRMS Digital Isolators
				MAX14819	2	Dual IO-Link Master Transceiver with Integrated Framers and L+ Supply Controllers
				MAX14912	1	Octal High-Speed, High-Side Switch/Push-Pull Driver
				MAXM22511	1	2.5kVRMS Complete Isolated RS-485/RS-422 Module Transceiver + Power
				MAX3108	1	SPI/I ² C UART with 128-Word FIFOs
				MAXM15462	2	4.5V to 42V, 300mA Himalaya uSLIC Step-Down Power Module
				MAX22192	1	Octal Industrial Digital Input with Diagnostics and Digital Isolation
MAXREFDES201#	Go-IO Industrial IoT Motion Control Module Optional board to be mounted on the Go-IO backplane in alternative to the MAXREFDES200# included in the kit			MAX14483	1	6-Channel, Low-Power, 3.75kVRMS SPI Digital Isolator
				MAX14130	3	4-Channel, 1kVRMS, 2.75kVRMS, and 3.75kVRMS Digital Isolators
				MAX14870	4	Compact 4.5V to 36V Full-Bridge DC Motor Drivers
				MAX14890E	3	Incremental Encoder Interface for RS-422, HTL, and TTL with Digital Inputs
				MAXM22511	1	2.5kVRMS Complete Isolated RS-485/RS-422 Module Transceiver + Power
				MAX3108	1	SPI/I ² C UART with 128-Word FIFOs
				MAXM15462	2	4.5V to 42V, 300mA Himalaya uSLIC Step-Down Power Module