





Module Name/Title	QEC-RXXDT0N	QEC-RXXDFFN	QEC-RXXD0TN
Digital I/O			
Channel	32-ch Digital Input	16-ch Digital Input & 16-ch Digital Output	32-ch Digital Output
Assignment	4 groups, per group: 8 × I/O, 1 × COM, 1 × AUX (Reserved, do not connect)		
DI - Type	Bidirectional (Sink/Source selectable per group via COM); supports NPN & PNP sensors		-
DI - Response Time	Rise time 6 µs, Fall time 6 µs (typ., photocoupler)		
DI - Load Voltage	24 VDC (48 VDC version available)		-
DO - Type	-	Photo-MOS relay, bidirectional (Sink/Source selectable per group via COM)	
DO - Response Time	-	Turn-on 0.25 ms, Turn-off 20 µs (typ., Photo-MOS relay)	
DO - Load Voltage	-	Rated 24 VDC, Max. 56 VDC	
DO - Load Current	-	Max. 250 mA/ch; Peak 500 mA (100 ms, single pulse); **Max. 2 A per COM group**	
DO - Off-state Leakage		≤ 10 nA (max.)	
DO - On-resistance		0.8 Ω typ. / 1.5 Ω max.	
Isolation (Photocoupler)	DI: 2500 Vrms; DO: 1500 Vrms		
EtherCAT			
Connector	RJ-45 (Red housing for PoE; Black housing for non-PoE)		
Cable Type	Ethernet/EtherCAT Cable (Min. CAT 5), Shielded		
Cycle Time	1 ms		
Distributed Clock (DC)	Yes		
Mailbox Protocol	Not supported		
General			
I/O Connector	10-pin (2×5) header, 3.0 mm pitch, right-angle		
Power Connector	4-pin Power Input/Output (+V: Red / GND: Black) and 2-pin FGND (Green)		
Power Requirement	+19 to +50 VDC Power Input (Typ. +24 VDC)		
Power Consumption	3 W	3 W	3 W
Operating Temperature	-20 to +70°C		
Dimension	107.45 × 66 × 34 mm (W×D×H); 77.39 mm depth incl. DIN-rail clip		
Weight	235 g	237 g	240 g
LED Indicator	PWR, RUN, ERR, per-channel DI/DO status		
Certifications	CE, FCC, VCCI		
Mounting	DIN-Rail		

Dimension











