



Features:

- Support up to 8-slot DAC/ADC Interface
- 16-bit Digital-to-Analog Converter
- 16-bit Analog-to-Digital Converter
- Internal Monitoring Hardware Information
- EtherCAT Conformance test tool verified
- Operating Temperature -20 to +70 °C

Specifications

Analog Input		Analog Output	
Channels	0/4/8 (Differential)	Channels	0/4/8
Input Type	Voltage (V)	Output Type	Voltage (V, mV), Current (mA)
Input Range	±22 V; ±20 V; ±11 V; ±10 V; ±5 V; 0 V – 22V; 0 V – 20 V; 0 V – 11 V; 0 V – 10 V	Output Current	0 mA - 24 mA; 3.5 mA - 23.5 mA; 0 mA - 20 mA; 4 mA - 20 mA; ±24 mA
Input Impedance	Constant resistive ≥ 1 MΩ	Output Voltage	0 V - 5 V; 0 V - 10 V; ±5 V; ±10 V; - 0 V - 6 V; 0 V - 12 V; ±6 V; ±12 V
Overvoltage Protection	Up to ±24 V	Resolution	16-bit with accuracy ±0.2% FSR@25°C
Resolution	16-bit with accuracy ±0.2% FSR @25°C	Slew Rate	Configurable (Option)
Sample / Update	Effective AI scan/update (typ., 4-ch): ~500 μs (≈2 kHz per full scan set)	Drift	±10 ppm/°C
		Update Behavior	DAC settling (typ.): ~10–50 μs (range/load dependent)
General			
Connector	Euroblock Push-in Terminal		
Connector Color	Analog Input: Green; Analog Output: Orange; Negative: Black; Null: Gray;		
Protocol	EtherCAT (RJ-45 x 2)		
Ethernet Standard	IEEE 802.3		
Transmission Rate	100Mbps		
Power Connector	6-pin Power Input/Output		
Power Requirement	+19 to +50VDC Power Input (Typ. +24VDC@200mA)		
Power Consumption	4.8 W		
LED Indicator	PWR, RUN, LINK, ERROR, Analog Input/Output status		
Certifications	CE, FCC, VCCI		
Environment			
Operating Temperature	-20 to +70 °C		
Storage Temperature	-40~85°C		
Relative Humidity	95% (non-condense)		
Hardware			
Dimension	107.45 x 66 x 30mm (Without DIN-Rail)		
Weight	245 g		
Installation	DIN-Rail Mounting		
Internal Monitoring	Temperature, Voltage, Current, Startup time		

Ordering Information

QEC-R00A44S-N	EtherCAT 4-ch Analog Input and 4-ch Analog Output Module.
QEC-R11A44S-N	EtherCAT 4-ch Analog Input and 4-ch Analog Output Module/PoE.
QEC-R11A40S-N	EtherCAT 4-ch Analog Input Module/PoE.
QEC-R11A04S-N	EtherCAT 4-ch Analog Output Module/PoE.

* For detailed ordering information, please contact our sales staff or view the user manual.

Dimension

