Q.core 201

High Performance Data Acquisition Server

The Q.core is Gantners high-performance streaming data platform for test & measurement with a powerfull data acquisition core.



Key Features

- Data storage 4TB
  Internal 4 TB SSD for storage of large data sets. Multiple data loggers can be configured for continuous or triggered storage. Data streams from multiple Q.stations and different sampling rates can be merged into a single stream or data file
- Synchronization and time stamp of measurement values
  The Q.core can be synchronized with an NTP time server from the network and can be used as NTP server for all connected Q.stations.
- Ethernet interface for communication with Q.stations and network
  Seperated networks for Q.stations (measurement) and IT
  2x 1 Gbps Ethernet ports (RJ45), 1x 2,5 Gbps
- Web interface for data visualization and export
  Built-in web server with convenient front end for visualizing all live data streams or stored data, export function for all data in multiple data formats
- Very high data rates up to 128 channels with 100 kHz
  Data streams of up to 8 Q.stations with 16 channels, 100 kHz each can be acquired. Plugins can be installed e.g. Video Camera, OPC UA, FFT
- EtherCAT Interface
  EtherCAT slave for data exchange with EC Master



Q.core 201

High Performance Data Acquisition Server

Technical Data

Power Supply

Input voltage	90 ... [230] ... 264 VAC
Power consumption	Typ. 100 W
Connector	Cold appliance plug

Environmental

Operating temperature	-5 °C to +60 °C
Storage temperature	-40 °C to +85 °C
Relative humidity	5 % to 90 % at 50 °C, non-condensing

Q.core 201

General	
Type	Intel Core i5-1145GRE, Quad Core, 8M Cache, 1.5GHz (4.1GHz), 15W
RAM	32 GByte
Flash	128 GB
Real Time Clock (RTC)	Battery buffered
Watchdog	Programmable
OS	Real-time Linux
Ethernet Interface	
Channels	2x 1GB, 1x 2.5 GB
Protocols	HTTP, TCP/IP, High Speed Port
USB Interface	
Channels	4
Version	USB 3.0
EtherCAT Interface	
Electrical standard	Ethernet
Data rate	1024 Byte Data (253 variables read and 253 variables write)
Baud rate	100 Mbps
Cycle time	≥100 µs
SSD Specification	
Storage capacity	4TB
Interface	SATA 6 Gb/s (compatible with SATA 3 and SATA 1.5)
SSD Technology	3D NAND
Data rate	600 Mbyte/s
TBW (Terabytes written)	560 MB/s, 530 MB/s

Mechanical Information

Material	Aluminium
Measurements (W x H x D)	483 x 133 (3 HU) x 475 mm
Weight	3000 g
Ventilation Requirements	Requires forced air ventilation mounted above the Q.core rack (to be ordered separately). 19" FAN Unit, 1U with 6 Fans, 230 AC powered Schroff 10713-104. Depending on installation add Air Deflectors on top and bottom, Schroff 10713-141 with Air Filter Mat Schroff 60713-331.

Q.core 201

High Performance Data Acquisition Server

Remarks

Warm-up time	Are subject to a warm-up period of at least 45 minutes
	Specifications subject to change without notice

Ordering Information

Article number	849736

Gantner Instruments

Austria | Germany | France | Sweden | India | USA | China | Singapore
Montafonerstraße 4 · A-6780 Schruns · T +43 55 56 · 77 463-0

office@gantner-instruments.com
www.gantner-instruments.com