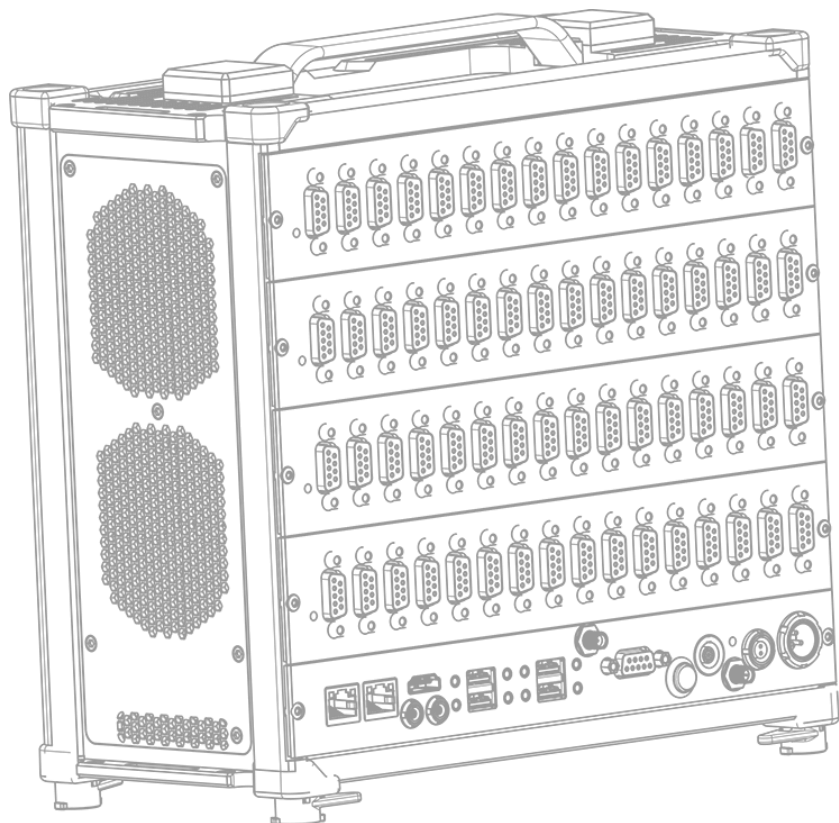
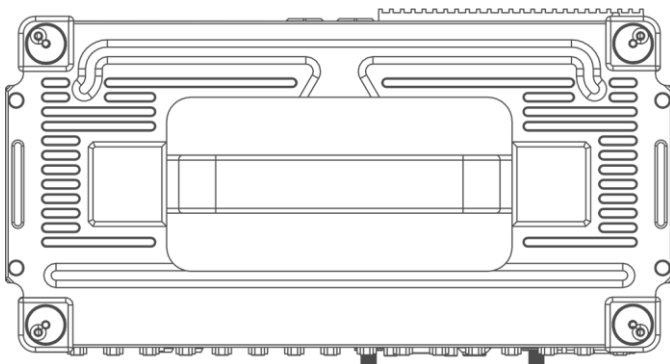
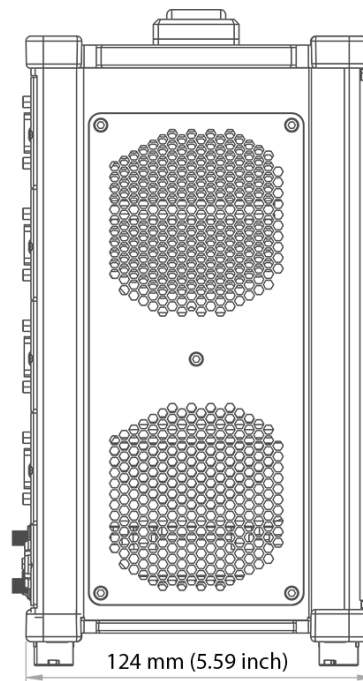
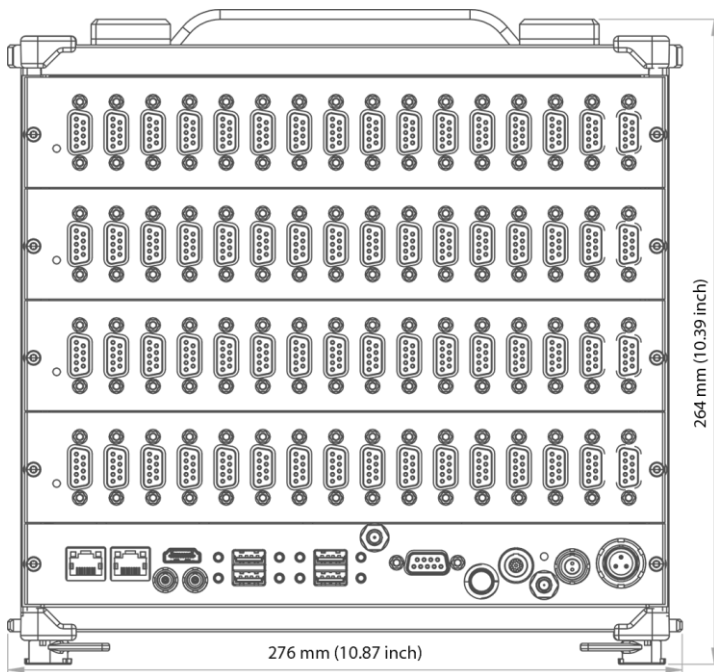


Технические характеристики R4



Общие характеристики системы

R4 DAQ System

Computer	
Processor	Intel® Core™ i7; 2x 2.6 GHz base, 3.4 GHz max; 4 threads
Memory	8 GB (optional up to 32 GB)
Storage	Non-removable M2 250 GB (500 GB, 1 TB as option)
Interfaces and options	
USB Front	4x USB 3.0
Ethernet	2x GLAN (RJ45) 2x front, 1x WLAN (RP-SMA Female Jack)
EtherCAT®	1x EtherCAT® 100 Mbps Full Duplex, 8-pin LEMO female
Synchronisation	2x SIRIUS® SYNC
Video	1x HDMI
GPS (option)	10 Hz or 100 Hz or 100 Hz + RTK
GPS display (option)	External on DSUB-9 female connector + remote power on
Power	
Power supply	9 - 36 V DC
Power consumption	Typ. 30 W (Max. 35 W) (excl. SIRIUS® slices)
Power out & EtherCAT® Power out	
Type	Switched input supply on 2-pin LEMO female & EtherCAT® connector, 8-pin LEMO female
Maximum power	60 W (combined Power out & EtherCAT® Power out)
Output Voltage	12 - 36 V DC
R4rt optional EtherCAT® slave port	
Minimum delay (analog input to EtherCAT® bus)	70 µs
Minimum EtherCAT® cycle time	100 µs
Environmental	
Operating Temperature	-10 to 50°C
Storage Temperature	-40 to 85°C
Humidity	95 % RH non condensing @ 50 °C
IP rating	IP20

Shock & Vibration	Vibration sweep sinus (EN 60068-2-6:2008)\ Vibration random (EN 60721-3-2: 1997 - Class 2M2) Shock (EN 60068-2-27:2009) MIL-STD-810D
Physical	
Dimensions	276 x 251 x 150 mm
Weight	3.2 kg (excl. SIRIUS® slices)

R4-HUB DAQ System

Interfaces and options	
USB Front	1x USB 2.0, USB Mini B
Synchronisation	2x SIRIUS® SYNC
USB 2.0 hub	
Bandwidth	Minimum 20 MB/sec Typical 25 MB/sec Maximum 28 MB/sec
SIRIUS Dual Core	32 AI Channels at 200 kS/sec @ 25.6 MB/sec
SIRIUS HS	32 AI Channels, 450 kS/sec @ 28.8 MB/sec 8 AI Channels + 1 Counter, 1000 kS/sec @ 20 MB/sec
Power	
Power supply	9 - 36 V DC
Connector	3-pin LEMO male
Power consumption	Typ. 4.8 W (Max. 6.8 W) (excl. SIRIUS® slices)
R4rt optional EtherCAT® slave port	
Minimum delay (analog input to EtherCAT® bus)	70 µs
Minimum EtherCAT® cycle time	100 µs
Environmental	
Operating Temperature	-10 to 50°C
Storage Temperature	-40 to 85°C
Humidity	95 % RH non condensing @ 50°C
IP rating	IP20
Shock & Vibration	Vibration sweep sinus (EN 60068-2-6:2008)\ Vibration random (EN 60721-3-2: 1997 - Class 2M2) Shock (EN 60068-2-27:2009) MIL-STD-810D
Physical	
Dimensions	276 x 251 x 150 mm
Weight	2.75 kg (excl. SIRIUS® slices)

Характеристики входов

Counter specification

Counter	
Timebase	102.4 MHz
Time base accuracy Typical	5 ppm, Max: 20 ppm
Max. Bandwidth	10 MHz
Input Filter	500 ns, 1 μ s, 2 μ s, 4 μ s, 5 μ s and 7.5 μ s
Input Level Compatibility	TTL (Low: <0.8 V, High >2 V)
Input Impedance	100 k Ω pull-up to +3.3 V
Input Protection	$\pm$ 25 Volt continuous
Alarm output	Open collector, max. 100 mA / 30 Volt
Sensor supply	5 V / 100 mA; 12 V / 50 mA

CAN specification

CAN bus	
Number of ports	1
Interface type	CAN 2.0B, up to 1 MBit/sec
Special applications	CCP, OBDII, J1939, CAN output
Galvanic isolation	Isolated (only on isolated motherboard)
Bus pin fault protection	$\pm$ 36 V
ESD protection	8 kV