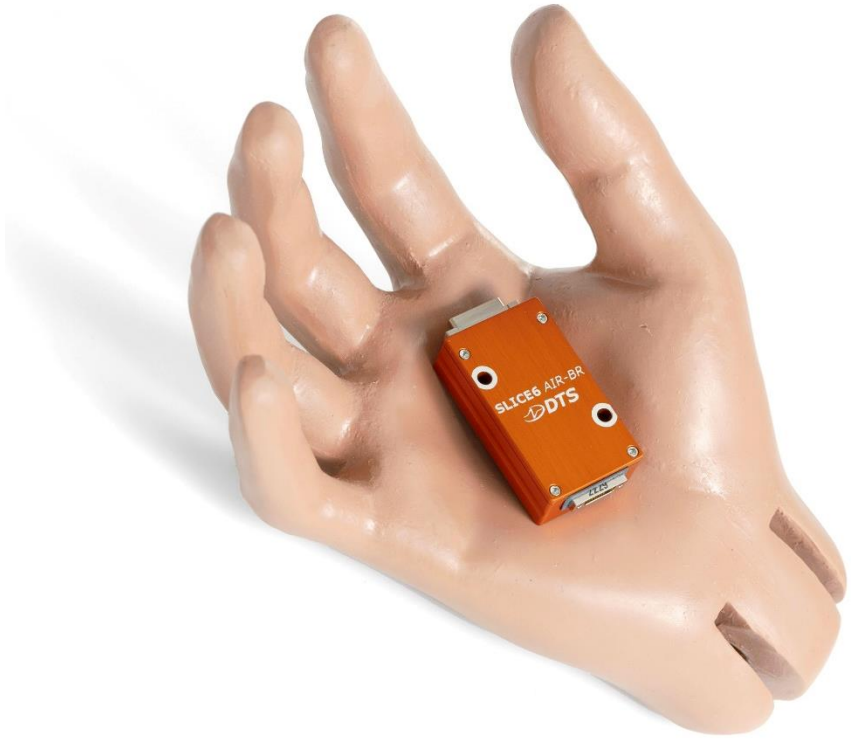
SLICE6 AIR-BR DAS
User's Manual



January 2025

13006-90860-MAN (Rev. 2)

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DTS Support

SLICE6 AIR-BR systems are designed to be reliable and simple to operate. Should you need assistance, DTS has support engineers worldwide with extensive product knowledge and crash test experience to help via telephone, e-mail or on-site visits.

The best way to contact a DTS support engineer is to submit a request through the DTS Help Center web portal (support.dtsweb.com). You must be registered (support.dtsweb.com/registration) to submit a request (https://support.dtsweb.com/hc/en-us/requests/new). Registration also enables access to additional self-help resources and non-public support information.

This manual supports the following products:

13006-90860: SLICE6 AIR-BR DAS Module
13006-90861: SLICE6 AIR-BR DAS Module (1280 Hz)

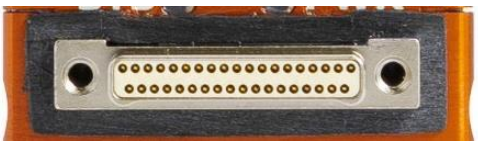
Introducing the SLICE6 AIR-BR DAS

SWaP optimized, the SLICE6 AIR-BR DAS is a complete data acquisition unit for measuring analog signals in extreme environments such as payload ejection/deployment; in-flight/on-board UAVs/drones, rockets, missiles and munitions; and biomechanics. PTPv2 Ethernet communications and real-time data streaming with on-board data storage to flash memory are supported. Each unit includes 6 sensor input channels and can be used standalone or interconnected/networked for high channel count systems.

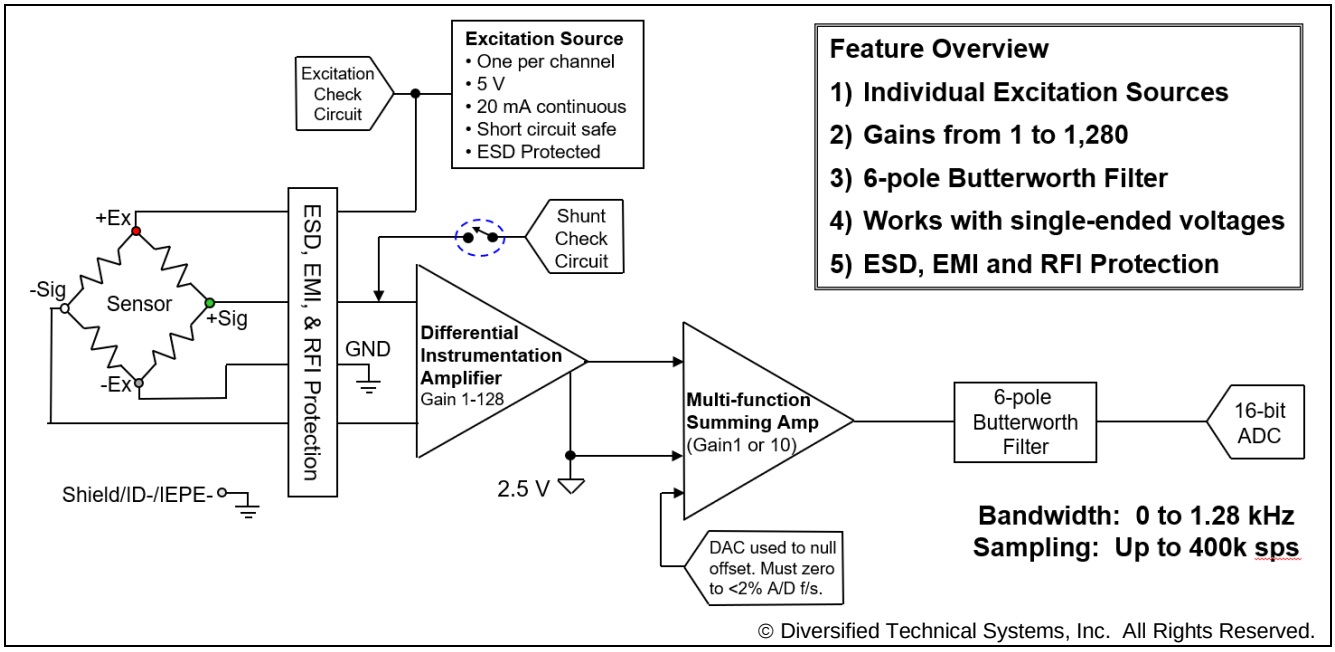
- Sample rates up to 400,000 sps on 6 channels simultaneously via record in place.
- Real-time data streaming up to 20,000 sps per channel.
- Shock rated to 500 g for dynamic testing environments.
- 6-channel analog sensor interface supports accelerometers, load cells, pressure sensors, strain gage and piezo-resistive bridges and voltage inputs.
- Thermocouples and other sensor types are supported with adapters as needed.
- LED indicators for system and power status.
- Ethernet PTPv2 communications (IEEE1588) easily support test set-ups of hundreds of channels.

Connector information, pin assignments and mechanical specifications can be found in Appendix A. Please see your packing list for your hardware's specifications.

Sensor Interface



The SLICE6 AIR-BR DAS supports 6 sensor measurement channels via the 37-pin, Nano-D sensor interface connector. See Appendix A for sensor connector pin assignments.



SLICE6 AIR-BR DAS Sensor Interface

Supported Sensor Types

Supplying 5 V excitation up to 20 mA per channel, the SLICE6 AIR-BR DAS supports many types of sensors including accelerometers, load cells and pressure sensors. The following general sensor types are supported:

- Full- (4-wire) or half-bridge (2- or 3-wire) resistive and piezo-resistive types.
- Voltage input range: 0.1 to 4.9 V; larger ranges supported with range expander cable.
- Conditioned sensors with 5 V excitation and 2.5 V centered signal output.

For additional questions regarding supported sensors, please contact DTS and provide the sensor manufacturer and model number, if available.

Input Range

The nominal sensor input range is -2.4 V to +2.5 V (2.5 V center with respect to -Ex) at a gain of 1. At higher gains, the maximum range decreases correspondingly. For example, at a gain of 10, the input range is ±240 mV. (The software will automatically calculate the gain based on the user-specified input range and other sensor parameters.)

Excitation Sources

The excitation source for each sensor measurement channel is individually regulated. Excitation sources are not turned on until the software initializes the system during diagnostics. The excitation sources are fixed at 5 V and current limited to 20 mA.

Bridge Completion

Half-bridge emulation for any channel may be selected via software. Half-bridge transducers should be connected to ±Ex and -Sig.

Hardware Filters

Each measurement channel has a fixed 1.28 kHz, 6-pole Butterworth, anti-aliasing filter. Should you have any questions regarding the best filter option for your application, please contact DTS.

Offset Compensation

Each channel can offset 100% of the effective input range at a gain of 2, and 200% at gains ≥4. The sensor offset is measured and the hardware compensation is adjusted during the diagnostic check. Please see the software manual for additional information.

Electronic Identification (EID)

The SLICE6 AIR-BR DAS does not support sensor ID.

Shunt Emulation

The SLICE6 AIR-BR DAS contains a shunt emulation circuit, effectively eliminating the need for conventional shunt resistors to perform shunt checks. When "Emulation" is chosen as the shunt calibration method, the software injects a precisely-calculated current into the sensor to create an expected deflection of the sensor's output. Expected versus actual deflection are compared to validate that the channel is working properly. Please see the software manual for additional information.

System Connector

All communications, control signals and input power are provided via the 21-socket, Nano-D system connector. It is also used to interconnect (daisy-chain) multiple units for hundreds of test channels. See Appendix A for pin assignments.

Ethernet signals must be connected in series with a maximum cable length of ~10 m. (Cable quality may affect maximum length and performance.) Control signals must be connected in parallel. See Appendix A for pin assignments.

Communication Method

The SLICE6 AIR-BR DAS supports Ethernet PTPv2 communications (IEEE1588)[1]. PTP (Precision Timing Protocol) provides standards for precision clock synchronization for measurement and control systems via Ethernet network communications. Timing information is extracted from the network's master clock and used by the SLICE6 AIR-BR DAS to adjust their internal (local) clock, providing precision timing for high channel-count systems with a sampling synchronization better than 10 µs. Communication is enabled after the initialization sequence has completed (15-30 s after sufficient power and ON signal is applied). (Note network congestion may slow IP address acquisition.)

Power Management

A good power source is of paramount importance. SLICE6 AIR-BR DAS should be powered from a high-quality, 9-35 VDC (28 VDC nominal) power supply[2]. Be sure to consider any power drop due to cable length.

The SLICE6 AIR-BR DAS must be connected to external power at all times for operation. Without external power applied, the SLICE6 AIR-BR DAS is in a power off state. The maximum power consumption is <3 W and occurs during data collection when the unit is on, armed and streaming.

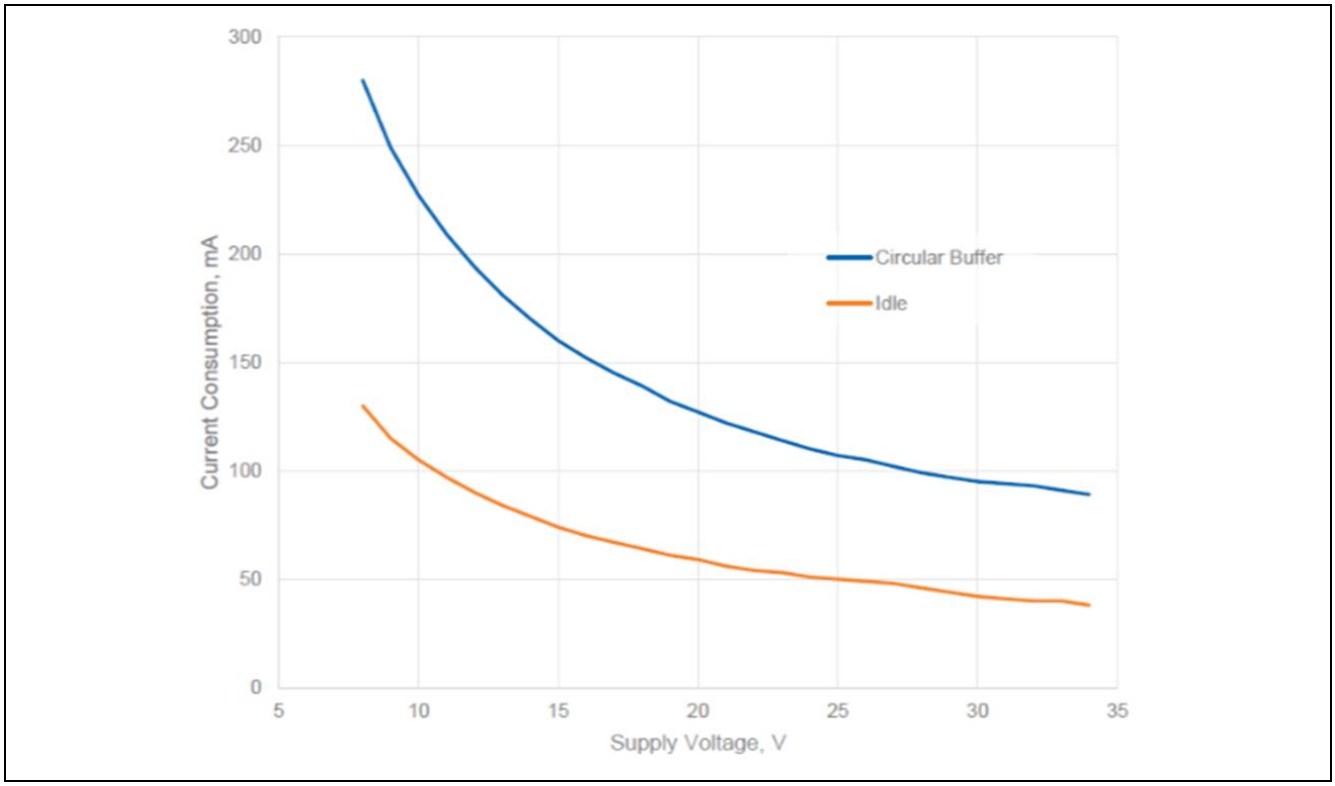
With power applied, the DAS is either in deep sleep or on. If the ON signal is absent or removed, the DAS enters deep sleep, the lowest power consumption state. (With power applied and the ON signal removed, the DAS will complete any data recording event before powering down.) With the ON signal applied, power consumption depends largely on the connected sensor load and the unit's operational state. Please see the current and power consumption tables on the next page for more information.

Power-up and Power-down Procedures

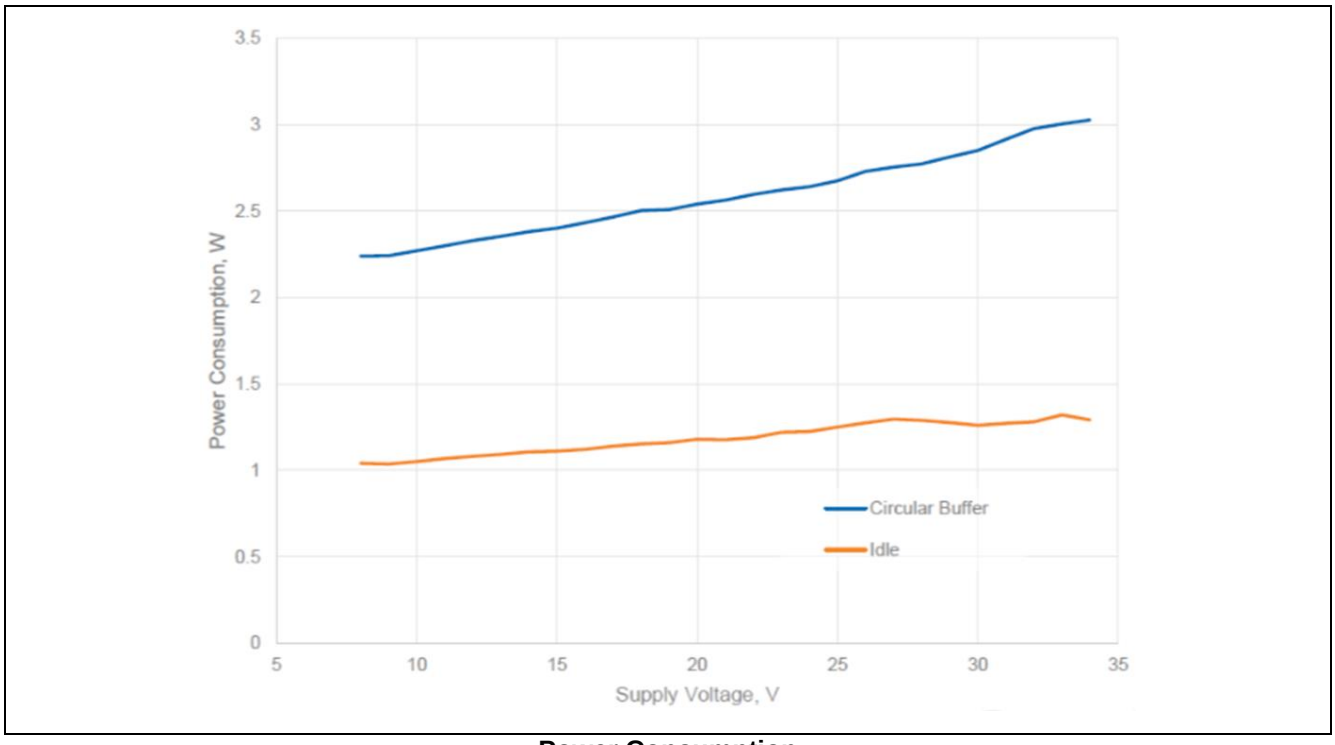
When sufficient power is applied, the SLICE6 AIR-BR DAS will power up (on, idle and communication enabled) if an ON signal is present. With power applied but the ON signal absent, the unit is off. Power up (on state) occurs in ~15 s, after which communication is

[1] 1PPS input/output is also available.
[2] Commercially-available 9 V batteries should not be used to power the SLICE6 AIR-BR DAS.

enabled. Power down of the DAS is immediate upon removal of external power. Wait ~30 s before reinitializing the DAS.



Current Consumption



Power Consumption

LEDs

There are 2 LED indicators for system and power status.

Status (STS) LED

The status LED indicates communication and arm status and is red, green or blue. At system power up, the LED cycles from red to green to blue followed immediately by the power LED boot-up sequence.

Condition	STS
Power up	
Communicating with PC	
Recording Data (Recorder Mode) -or- Armed (Circular Buffer) -or- Real-Time Streaming	
Armed in Recorder Mode	
Unit received Event	
Idle	

- When the unit is not armed, the status LED will blink green when handling a command from the PC.
- For Recorder Mode:
  - When the unit is first armed, the LED will go solid blue to indicate that it is waiting for the START RECORD signal but not taking data.
  - When it receives the START RECORD signal, the LED will turn green to indicate that it is actively recording data.
  - The LED will turn off when data collection has completed.
  - If an EVENT signal is received while the unit is recording data, the LED will turn red and then turn off when data collection has completed.
- For Circular Buffer Mode:
  - When the unit is armed, the LED will go solid green to indicate that it is collecting data and waiting for the EVENT signal.
  - When an EVENT signal is received the LED will turn red and then turn off when data collection has completed.

Power (PWR) LED

The power LED is red, green or blue.

Condition	PWR
Power up	
Connected to host	
Power up; not connected to host (time synchronization is disabled)	
DAS synchronized with time input source	
Power fault (input power out of range) (time synchronization is disabled)	
DAS out of synchronization with time input source	

- At power up, the LED cycles from red to green to blue immediately after the status LED has completed its boot-up sequence.
- When connected to host, the LED will turn blue.
- At power up but not connected to host, the LED will turn green.
- When input power is too high or too low, the LED will turn red.

Data Memory Size

With 15 GB of flash memory available for data storage, the SLICE6 AIR-BR DAS can record ~52 minutes of data at the maximum sampling rate (6 channels at 400,000 sps). Since the recording capacity is very large, it is generally best to limit sampling rates and event durations to the minimum necessary to avoid large and cumbersome data files. Large files take longer to download and may also be time-consuming to post-process or difficult to share. Use of the Region of Interest (ROI) download can save a great deal of time if implemented properly.

Sampling Rates

User-selectable sampling rates are available from 100 sps to 400,000 sps.

# of Channels*	Maximum Sampling Rate (per channel)
6	400,000 sps via record in place
	20,000 sps via data streaming

* All channels are recorded even if they are not programmed.

With 15 GB available for data storage, there are 7,500 M samples available (1 sample = 2 bytes). To determine the maximum recording time, divide the number of samples by the product of the sampling rate and the number of channels.

$$\frac{7{,}500{,}000{,}000}{\text{Sampling rate (sps)} \times \text{\# of channels}} = \text{\# of seconds}$$

Example: 6 channels of data at 400,000 sps

$$\frac{7{,}500{,}000{,}000}{400{,}000 \times 6} = 3{,}125 \text{ sec (52 minutes)}$$

Example: 6 channels of data at 20,000 sps

$$\frac{7{,}500{,}000{,}000}{20{,}000 \times 6} = 62{,}500 \text{ sec (1,041 minutes)}$$

Circular Buffer Limitations

Due to the nature of flash memory, the system cannot be armed in *Circular Buffer* mode indefinitely. To determine the maximum time available, use the equation below:

$$0.8 * \text{recording time} = \text{maximum time available in } \textit{Circular Buffer} \text{ mode}$$

Example: $0.8 * 3{,}125 \text{ sec} = 2500 \text{ sec (41 minutes)}$

In this example, the test must occur within 41 minutes, after which time the unit stops recording data.

Basic Care and Handling

The SLICE6 AIR-BR DAS is a precision device designed to operate reliably in dynamic testing environments. Though resistant to many environmental conditions, care should be taken not to subject the units to harsh chemicals, submerge it in water, or drop it onto any hard surface.

WARNING:

Electronic equipment dropped from desk height onto a solid floor may experience up to 10,000 g. Under these conditions, damage to the exterior and/or interior of the unit is likely.

Your SLICE6 AIR-BR DAS module is supplied with calibration data from the factory. DTS recommends annual recalibration to ensure that the unit is performing within factory specifications. The SLICE6 AIR-BR DAS is not user-serviceable and should be returned to the factory for service or repair.

Shock Rating

Each SLICE6 AIR-BR DAS is rated for 500 g, 4 ms half-sine duration, in all axes.

Mounting Considerations

The SLICE6 AIR-BR DAS should be bolted securely to the test article or dynamic testing device to provide the best shock protection. Mounting methods and hardware selection should be carefully calculated to withstand expected shock loading and facilitate proper grounding. Check bolt tightness periodically to ensure that the unit is securely fastened to the testing platform.

DTS strongly recommends that all equipment be properly grounded to minimize any risk of data noise due to high-current transients. The test article or dynamic testing device should be connected to earth ground. The SLICE6 AIR-BR DAS should be grounded to each other and bolted to the test article. DTS recommends checking continuity between the enclosures of each unit to confirm resistance readings of <1 ohm.

Thermal Considerations

The SLICE6 AIR-BR DAS is a low power device and it is unlikely that self-heating will be an issue in real-world testing if proper mounting methods are observed. Never mount the unit to a thermally non-conductive surface like wood or plastic. ALWAYS use SLICE6 AIR-BR DAS with a heat sink if you are not mounting the system to a structure that will serve this purpose. Should you have any questions about using the SLICE6 AIR-BR DAS in your environment, please contact DTS.

Environmental Rating

The SLICE6 AIR-BR DAS is IP64 rated:

6 (solid ingress) = totally protected against dust;
4 (liquid ingress) = the enclosure is protected against splashing water from any direction.

Care should be taken to prevent prolonged exposure to any potentially harmful environment. Units should be cleaned, dried and inspected after exposure to any environment that could cause damage.

Software

DataPRO software is used with the SLICE6 AIR-BR DAS. PC specifications are:

- Windows 7 and later (32- and 64-bit versions are supported)
- Microsoft .NET Runtime version 4.5.2
- MS Access ODBC drivers (usually included with Microsoft Office)
- i5 processor minimum; i7 processor recommended
- 8 GB RAM minimum; 16 GB RAM recommended (more RAM is important for high channel counts and longer/higher sample rates)
- 1 GB disk space for software plus additional storage for test data
- 1366 x 768 minimum screen resolution; 1920 x 1080 recommended

Additionally, DTS recommends a network that supports gigabit Ethernet (GbE).

Data Collection Concepts

The discussion below provides a general introduction to data collection. Please see the software manual for a detailed discussion and implementation specifics.

The SLICE6 AIR-BR DAS is a standalone data logger. Once the system is armed, the PC can be disconnected if desired. After receiving a Start Record or Event signal, the SLICE6 AIR-BR DAS autonomously collects data, storing it to flash memory with no user interaction. After the test, the user reconnects the PC to download the data.

There is also a real-time mode in the control software that allows the user to check channel inputs on an oscilloscope-looking screen. (This data can be logged.)

Data Collection Modes

The SLICE6 AIR-BR DAS supports 4 data collection modes: Circular Buffer, Recorder, Hybrid Recorder, and Continuous Recorder. (Note: The software cannot simultaneously display the data while the system is recording.)

Circular Buffer Mode

Using Circular Buffer mode, the user can program the SLICE6 AIR-BR DAS to record pre- and post-Event data. Time Zero (T=0) is marked when the Event signal is received.

Due to the nature of flash memory, the system cannot be armed in Circular Buffer mode indefinitely. Please see page 12 for information on how to calculate data storage duration when using Circular Buffer mode. (Active RAM mode uses 32 KB of the RAM buffer.)

Recorder Mode

Data collection begins when a Start Record signal is received and continues for the time specified in the test set-up. If an Event signal is received sometime after the Start Record signal, this is marked as T=0.

Hybrid Recorder Mode
Data collection begins when a Start Record signal is received and continues until the unit receives an Event signal. The unit then records for the post-Event time specified by the user. The Event signal marks the T=0 point and all data recorded is available for download.

Continuous Recorder Mode
Data collection begins when a Start Record signal is received and continues until the Start Record signal is released. The unit will then re-arm for another event. The LEDs on the unit will flash blue slowly then rapidly, and then the status LED will become solid blue, indicating the unit is fully armed. The unit will continue to record new events until it records the number of events specified by the user. If an Event signal is received after the unit has re-armed, the unit will disarm and no longer attempt to re-arm.

NOTE:

An event or trigger signal applied anywhere in the SLICE6 AIR-BR DAS chain is distributed throughout the chain.

Data Streaming
Real-time data streaming up to 20,000 sps using IRIG Chapter 10 or TmNS is supported via DataPRO software. The SLICE6 AIR-BR DAS can be configured to simultaneously record to flash memory and stream. In addition, the unit can be configured to stream on power up. Please see the software manual for additional information, including how to create a test set-up.

Start Record and Event Initiation
The SLICE6 AIR-BR DAS supports multiple methods of initiating Start Record and Event signals. Typically, Start Record and Event are initiated via an external hardware interface that provides a discrete contact closure (CC) signal to initiate recording (Recorder mode) or mark T=0 (Circular Buffer mode).

All SLICE6 AIR-BR DAS data collection modes support multi-event arming. A unit armed in a multiple-event mode will re-arm when an event completes. The unit will stop re-arming when the number of events specified by the user has been recorded.

The SLICE6 AIR-BR DAS can be placed in an auto-arm mode that will cause the unit to arm automatically when the power is cycled. This available with any available data collection mode.

Additionally, Circular Buffer mode supports level triggering. This method continuously samples the incoming data and begins data collection if the data is above or below predefined levels. For example, it might be useful to begin data collection when a certain accelerometer experiences a force above 200 g. Using level trigger and Circular Buffer mode, SLICE6 AIR BR DAS can support this or any level-trigger signal on any channel.

CAUTION:

Level trigger is NOT recommended when SLICE6 AIR-BR DAS is used for destructive testing.

Finally, if the SLICE6 AIR-BR DAS remains connected to the PC during data collection, the control software can be used to initiate data collection.

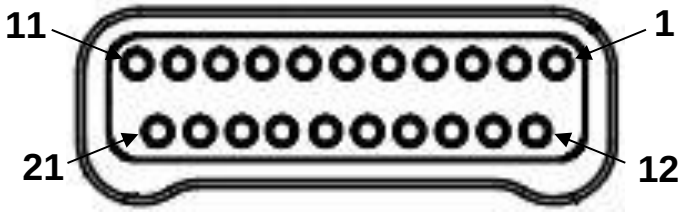
The table below summarizes the data collection modes and event/triggering options.

	Supports T=0 Start Record	T=0 methods supported	Data record window
Circular Buffer	Yes	Hardware (CC), software (PC) or level trigger	User-defined pre- and post- T=0 durations
Recorder	Yes	Hardware (CC), software (PC) or level trigger	User-defined duration after T=0
Hybrid Recorder	Yes	Hardware (CC), software (PC) or level trigger	User-defined post-Event duration
Continuous Recorder	Yes	Hardware (CC), software (PC), or level trigger	User-defined duration after T=0, with recording multiple events possible

Appendix A: Hardware Specifications

Connector Information and Pin Assignments

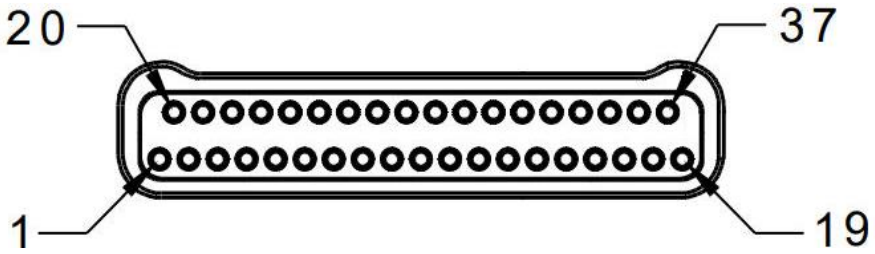
System Connector
(Omnetics A39100-821)



(looking into the connector)

Pin	Function
1	/ON (contact closure input to ground)
2	/START (contact closure input to ground)
3	/EVENT (contact closure input to ground)
4	Status output (3.3 V via 10K with respect to ground)
5	Chassis
6	-VDC
7	+VDC
8	-VDC
9	+VDC
10	-VDC
11	+VDC
12	Ethernet Rx1 (-)
13	Ethernet Rx1 (+)
14	Ethernet Tx1 (-)
15	Ethernet Tx1 (+)
16	Ground
17	PPS IN/OUT
18	Ethernet Rx2 (-)
19	Ethernet Rx2 (+)
20	Ethernet Tx2 (-)
21	Ethernet Tx2 (+)

Sensor Connector
(Omnetics A38100-837)



(looking into the connector)

Pin	Function
2	+Ex (Ch 1)
3	-Ex (Ch 1)
5	+Ex (Ch 2)
6	-Ex (Ch 2)
8	+Ex (Ch 3)
9	-Ex (Ch 3)
10	Chassis
11	-Ex (Ch 4)
12	+Ex (Ch 4)
14	-Ex (Ch 5)
15	+Ex (Ch 5)
17	-Ex (Ch 6)
18	+Ex (Ch 6)
20	+Sig (Ch 1)
21	-Sig (Ch 1)
22	Ground
23	-Sig (Ch 2)
24	+Sig (Ch 2)
25	Ground
26	+Sig (Ch 3)
27	-Sig (Ch 3)
28	Ground
29	Ground
30	-Sig (Ch 4)
31	+Sig (Ch 4)
32	Ground
33	+Sig (Ch 5)
34	-Sig (Ch 5)
35	Ground
36	-Sig (Ch 6)
37	+Sig (Ch 6)

1, 4, 7, 13, 16, 19: Reserved

RoHS
Manufacture/fabricate to meet the EU RoHS Directive 2011/65/EU and RoHS Annex II phthalates

REV	ZONE	DESCRIPTION	DATE	BY
0		ORIGINAL RELEASE	2023-03-23	OV
1	C7	CHANGED SYSTEM CONNECTOR PIN 17 TO "PPS"	2024-11-13	GD

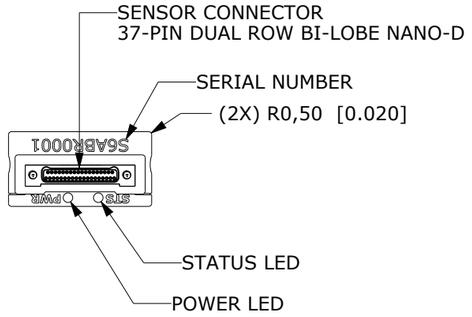
SENSOR CONNECTOR PIN ASSIGNMENTS

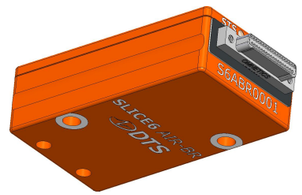
PIN	SIGNAL
1	-
2	+EX (CH1)
3	-EX (CH1)
4	-
5	+EX (CH2)
6	-EX (CH2)
7	-
8	+EX (CH3)
9	-EX (CH3)
10	CHASSIS
11	-EX (CH4)
12	+EX (CH4)
13	-
14	-EX (CH5)
15	+EX (CH5)
16	-
17	-EX (CH6)
18	+EX (CH6)
19	-
20	+SIG (CH1)
21	-SIG (CH1)
22	GND
23	-SIG (CH2)
24	+SIG (CH2)
25	GND
26	+SIG (CH3)
27	-SIG (CH3)
28	GND
29	GND
30	-SIG (CH4)
31	+SIG (CH4)
32	GND
33	+SIG (CH5)
34	-SIG (CH5)
35	GND
36	-SIG (CH6)
37	+SIG (CH6)

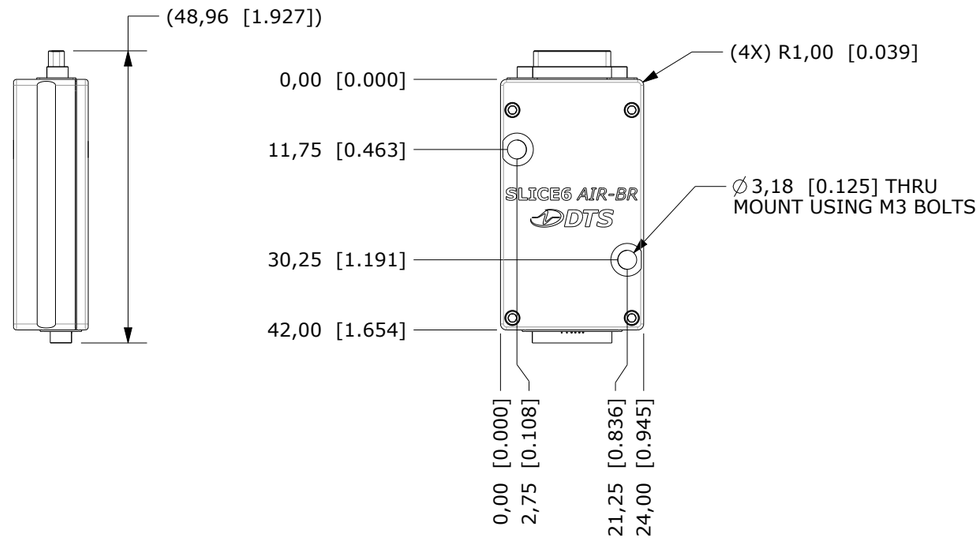
Reserved: 1, 4, 7, 13, 16, 19

SYSTEM CONNECTOR PIN ASSIGNMENTS

PIN	SIGNAL
1	/ON
2	/START
3	/EVENT
4	STATUS
5	CHASSIS
6	-VDC
7	+VDC
8	-VDC
9	+VDC
10	-VDC
11	+VDC
12	RX_1_N
13	RX_1_P
14	TX_1_N
15	TX_1_P
16	GND
17	PPS IN/OUT
18	RX_2_N
19	RX_2_P
20	TX_2_N
21	TX_2_P







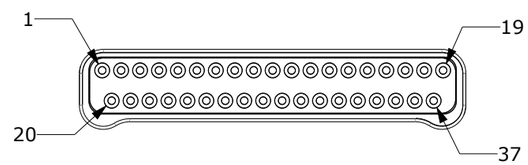
--- CONNECTOR MATE RECOMMENDATIONS ---

37-Socket Sensor Connector:
MNSO-37-WD Series**

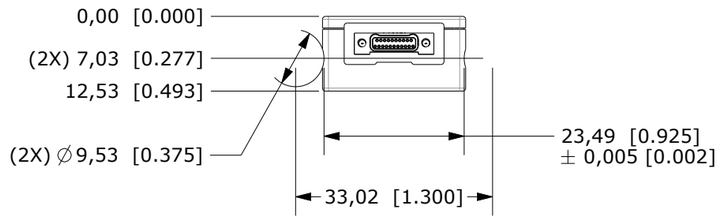
21-Pin System Connector:
MNPO-21-WD Series**

** See ordering options on manufacturer website for wire gage, type, color, length, and jack screw options

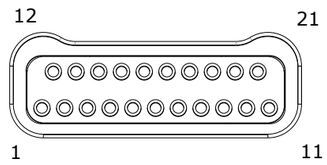
LOOKING INTO FRONT OF SLICE6 AIR-BR SENSOR CONNECTOR



SYSTEM CONNECTOR
21-SOCKET DUAL ROW BI-LOBE NANO-D



LOOKING INTO FRONT OF SLICE6 AIR-BR SYSTEM CONNECTOR



MASS = 25 ± 5 GRAMS

DTS SEAL BEACH, CA 90740
562-493-0158
www.dtsweb.com

MATERIAL: 6061-T6 ALUMINUM W/ INTERNATIONAL ORANGE ANODIZE

UNLESS OTHERWISE SPECIFIED:
UNITS = MM [INCH]
DIMENSIONAL TOLERANCES ±.254 [0.010"]
INTERPRET PER ASME Y14.5. DO NOT SCALE.

DESCRIPTION: SLICE6 AIR-BR, MOUNTING DRAWING

DTS P/N:

REV: 1

DRAWN: O VILLAFANA

DATE: 2023-03-24

SIZE: B

SCALE: 1:1

SHEET: 1 OF 1

MDL: DTS_SLICE6_AIR-BR_FALCON

Ethernet Chaining

To share Ethernet communications, chain SLICE6 AIR-BR DAS modules together using the methodology in the table below.

SLICE6 AIR-BR #1		SLICE6 AIR-BR #2		SLICE6 AIR-BR #3	
Function	**Pin**	**Function**	**Pin**	**Function**	**Pin**
		TX_2_P	21	RX_1_P	13
		TX_2_N	20	RX_1_N	12
		RX_2_P	19	TX_1_P	15
		RX_2_N	18	TX_1_N	14
TX_2_P	21	RX_1_P	13		
TX_2_N	20	RX_1_N	12		
RX_2_P	19	TX_1_P	15		
RX_2_N	18	TX_1_N	14		

Accessories/Support Equipment

13006-90880: Cable, SLICE6 AIR-BR 6 ch sensor (37S->MCS-07; 152 mm; no screws)
13006-90990: Cable, SLICE6 AIR-BR 6 ch sensor (37S->MCS-07; 152 mm; with screws)
80000-04090-R: Conn assy; Nano-D, 21-pin plug to pigtails, 30 AWG, 18", with screws
80000-04240-R: Conn assy; Nano-D, 37-socket to pigtails, 30 AWG, 18", with screws
80000-04241-R: Conn assy; Nano-D, 37-socket to pigtails, 30 AWG, 36", with screws

Appendix B: Hardware Configuration Specifications

SLICE6 AIR-BR DAS are typically delivered with a default IP address as follows:

IP address	192.168.7.**xx** where **xx** is based on the last two digits of the S/N[3]; for example: S/N S6ABR00**47** = 192.168.4.**47** S/N S6ABR02**33** = 192.168.4.**33**
Netmask	255.255.248.0

The calibration data for your equipment identifies the IP address as shipped from the factory. If the calibration data is not available, try using the default address described in the table above.

If you need information on the specifics of your equipment, please submit a request through the DTS Help Center web portal (support.dtsweb.com) and include the serial number(s) of the equipment and parameters you are asking about.

Using the SLICE Network Configuration Utility

The *SLICE Network Configuration Utility* (available from the DTS Help Center) can be used to view or change the unit's IP address.

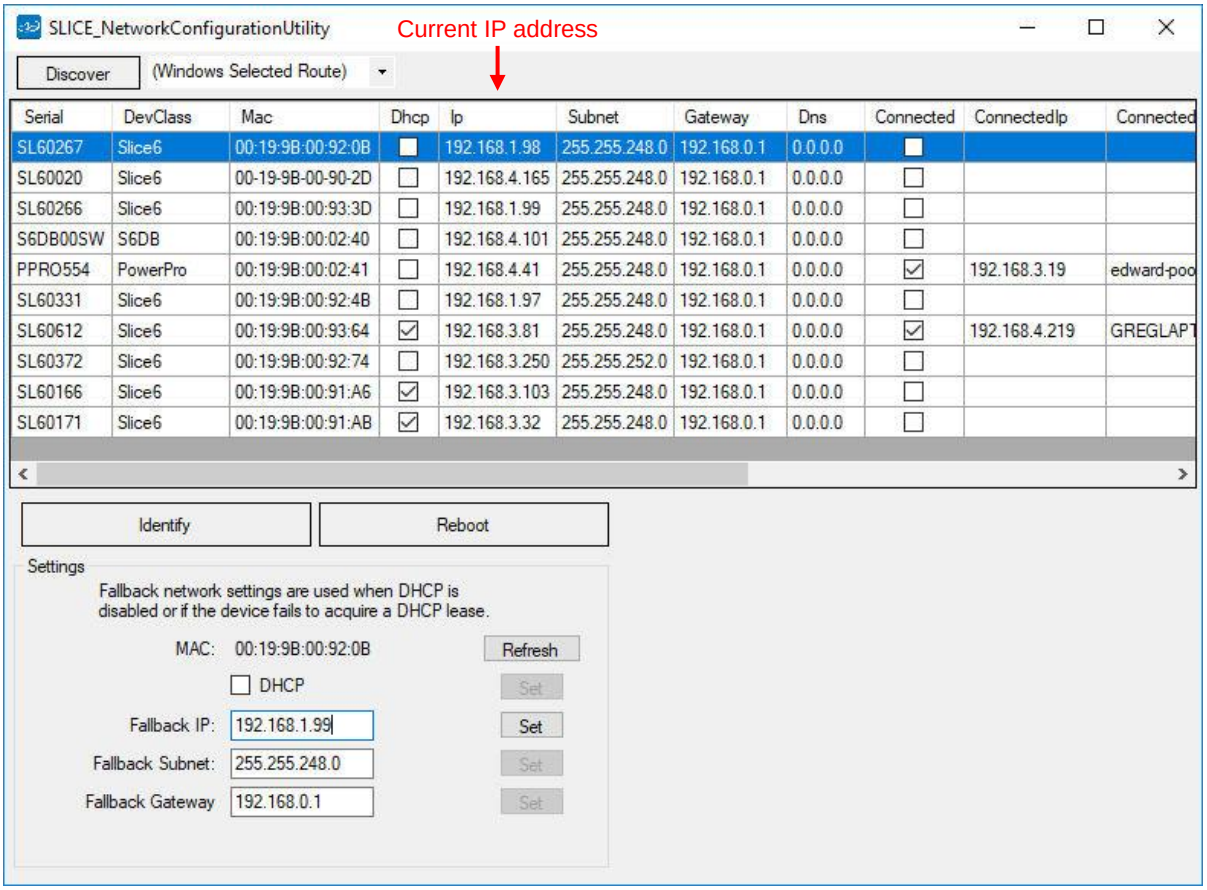
Use of the utility requires a network that supports multicast and the workstation running the utility must also allow it. Confirm that:

- The PC's Ethernet properties are not using anything that can block multicast; e.g., *DNE LightWeight Filter*.
- The Windows Firewall will allow multicast traffic.
- Any third-party anti-virus software will allow multicast traffic.

1. Open the *SLICE Network Configuration Utility*.

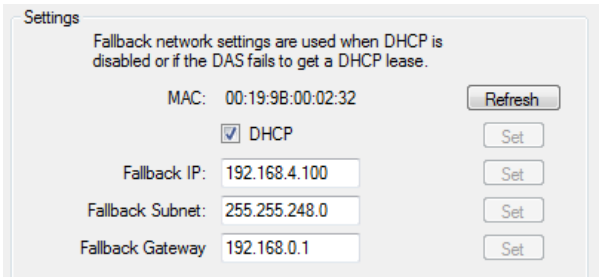
[3] If **xx** = **00** or **01**, then use last three digits of S/N; e.g.; S6ABR0201 = 192.168.7.201

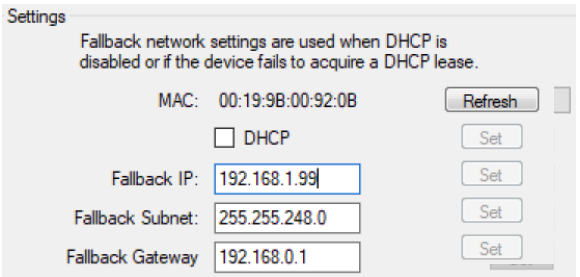
2. The software will immediately look for all attached devices and list them in the table. (You may also click Discover to refresh the list.)



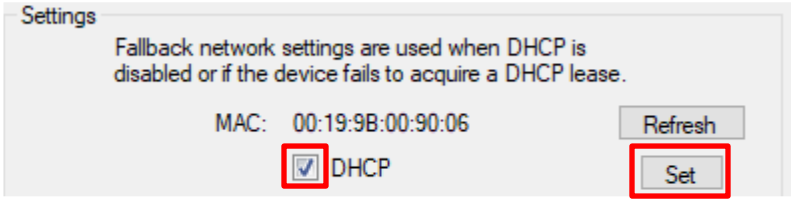
Note: Clicking on Identify for any selected device will cause the unit's LED to flash.

3. Select the SLICE6 AIR-BR DAS from the list. (A SLICE6 DAS is selected in the image above.) The device Settings are shown at the bottom of the window. The current IP address may or may not match the fallback IP address, depending on whether DHCP is selected.

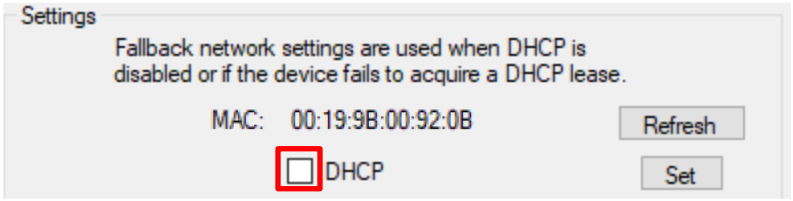




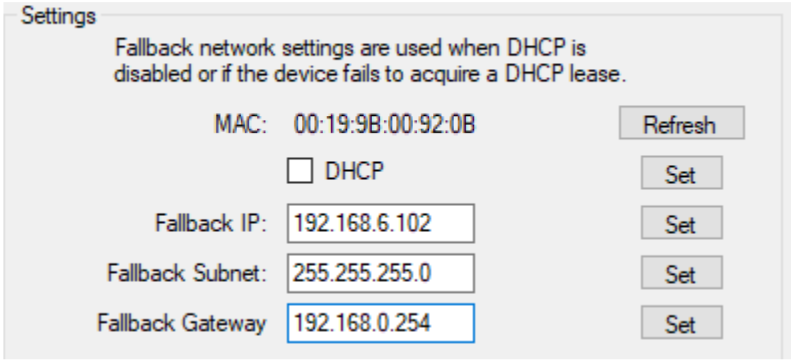
4. To enable DHCP, select the check box then select Set . Proceed to step 7.



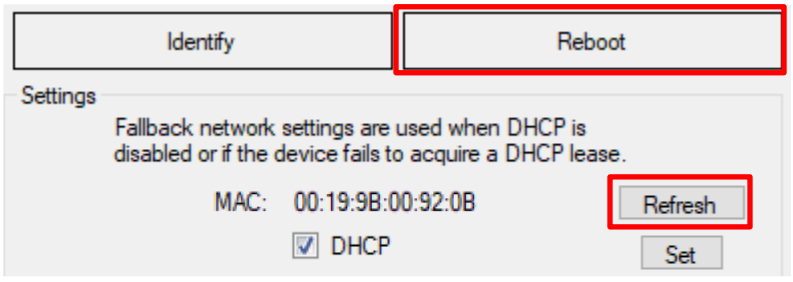
5. To disable DHCP and manually enter IP address and other information, unselect the check box.



6. Enter the new parameters and select Set for each item updated. (Note: The MAC address is not user configurable.)



7. Select Refresh to view the settings (optional), then Reboot the device.



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DECLARATION OF CE CONFORMITY

Description	Model
Data Acquisition Module	SLICE6 AIR-BR

The undersigned hereby declares that the products listed above, manufactured by Diversified Technical Systems, Inc., Seal Beach, California, USA, conform to the following directive and standards:

Applicable Council Directive: **89/336/EEC – Electromagnetic Compatibility**

Applicable Harmonized Standards: **EN 55022:1998, EN 55024:1998**

Rollin White
Head of DTS, Senior Director

March 27, 2023
Date

Revision History

Rev	Date	By	Description
X1	29 Mar 2023	E. Kippen	Initial draft.
X2	4 Apr 2023	E. Kippen	Sensor connector pin assignments updated. Added accessories. Removed references to 1/4 bridge. Added sensor interface diagram.
0	7 June 2023	E. Kippen	Added power consumption tables.
1	20 June 2023 30 July 2024	E. Fizer E. Kippen	Updated power LED behavior for sync status. Added 13006-90861 to products manual supports. Replaced current and power consumption charts. Updated shock rating from 3 ms to 4 ms. Revised IP rating.
2	23 Jan 2025	E. Kippen	Updated SYSTEM connector pin 17 description (was Ground, now PPS INPUT/OUTPUT) and added reference to 1PPS on page 8. Updated data streaming details.