Bandweaver

DATASHEET

FenceSentry
Distributed Acoustic Sensor

DETECTOR UNIT (FRONT AND REAR VIEW)

PROCESSOR UNIT (REAR VIEW ONLY)

Datasheet disclaimer: All product specifications, statements, information and data in this datasheet (or made available on the website,) are subject to change. The customer is responsible for checking and verifying the extent to which the Information contained in this publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied.

Monitored | Secured | Safe

PROCESSOR UNIT SPECIFICATIONS

PROCESSOR UNIT SPECIFICATIONS	
Main Processor	AIMB-787G2
Processor	Intel i7 10700
BIOS	AMI 64 Mbit SPI
Memory: RAM	16GB
Memory	1 TB Solid State Drive 2*1 TB HDD (as RAID1)
GRAPHICS	
Graphics Card	GeForce GTX1650
INTERFACES	
USB	Front: 2 , Rear: 4
Serial	Rear: 1
PS/2	Front: 1 (keyboard) / Rear: 2 (1 x keyboard and 1 x mouse)
HDMI / DVI / Displayport	Yes (1 of each)
VGA	No
Ethernet	2x connection to FenceSentry DU, 1x user connection (network switch / SCADA etc.) 1x reserved (remote login / maintenance)
ELECTRICAL	
Input Voltage	AC 100 ~ 240 V
Power Consumption	300W
Power Supply Safety	UL / TUV / CB / CCC
Power Supply MTBF	100,000 hours @ 25 °C
PHYSICAL	
Dimensions	482mm x 450mm x 177mm (4U)
Shipping Dimensions	610mm x 330mm x 560mm
Weight	12.5 kg (18kg Shipping weight)
System Fan Detail	1 (12 cm / 77 CFM)
ENVIRONMENTAL	
Temperature	Operating: 0° to +40 °C Storage -20 ° to 60°C
Humidity	Operating: 10 ~ 85% @ 40°C, non-condensing Storage: 10 ~ 95% @ 40°C, non-condensing
Vibration (5 ~ 500 Hz)	Operating: 1Grms / Non-Operating: 2 G
Shock	Operating: 10 G (with 11 ms duration, half sine wave) / Non-Operating: 30 G
OPERATING SYSTEM AND SOFTWARE	
Operating System	Windows 11 Pro
Software	DASCM

DETECTOR UNIT SPECIFICATIONS

FENCESENTRY DETECTOR UNIT SPECIFICATIONS	
Range per channel*	5km or 10km
Number of channels	2
Ordering Part Numbers	DAS-SNT-03-05-02CH/FS System DAS-SNT-03-10-02CH/FS System
DATA ACQUISITION	
Acquisition Frequency	10 to 2,000 Hz
Event accuracy resolution	1 to 5m
OPTICAL	
Laser Wavelength	1550 nm
Optical Budget	5 dB
Connector Type	FC / APC
Cable type	Single mode 9/125
Cable Installation Method	Fence Mounted (See installation guide)
Bandweaver Cable	FenceLine as standard, Other cables available on request
Laser Safety Classification	Class 1
ELECTRICAL AND HARDWARE INTERFACES	
Supply Voltage	100V-240V AC
Power Consumption	30W (typical) / 40W (max)
Relays	20 Relays outputs plus 2 on/off inputs
Serial	RS485 to control additional relays
PHYSICAL	
Dimensions	431mm x 384mm x131mm (3U)
Shipping Dimensions	570mm x 530mm x 320mm
Weight	10 kg (13.8kg Shipping Weight)
IP Rating	IP40
Material	Painted Steel
Colour/Finish	Matt Black
Shipping dimensions	570 x 330 x 540 mm
Shipping Weight	15 kg
ENVIRONMENTAL	
Operating Temperature	-10° to +55°C
Operating Humidity	0 to 95% RH, Non-condensing
Storage Temperature	-10°C to +85°C
Storage Humidity	0 to 95% RH, Non-condensing
SAFETY AND APPROVALS	
Laser Safety	IEC60825-1
CE - EMC	EMC 2014/30/EU - EN 61000-6-3:2007+A1:2011 EN 61000-3-2:2014 EN 61000- 3-3:2013 EN 61000-6-1:2007
CE - LVD	LVD 2014/35/EU - IEC 61010-1:2010 EN 61010-1:2010
CE - RoHS	Yes
FDA	FDA Ascension number 2422248-000
FCC	47CFR Part 15:2017 ANSI C63.4:2014

*Range is dependent on the optical quality of the sensing cable route. This can be confirmed upon reviewing an OTDR trace vs the planned optical budget.

The above specifications are provided as guidance only and cannot be guaranteed to be exact, and Bandweaver will supply the equivalent or better.