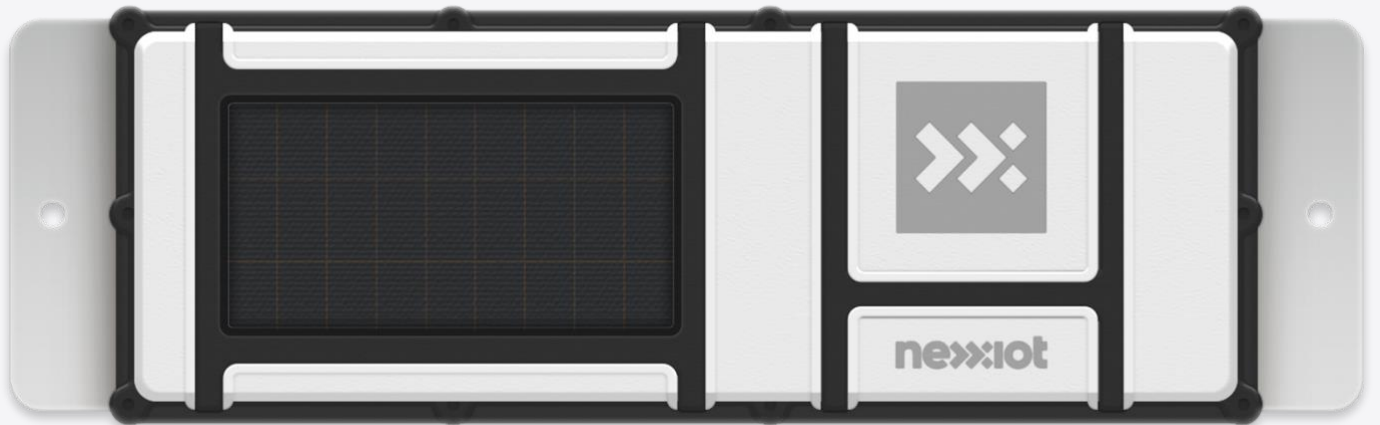


Globehopper Crossmodal 3 Datasheet



Nexxiot Crossmodal 3 is a zero-maintenance hardware unit for enabling real-time monitoring of non-powered rail cars.

Doc. Nr.:	20190626001
Version:	1.8
Status:	APPROVED
Classification:	PUBLIC
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1. Technical Data



Product	Globehopper Crossmodal 3 Ex	
ID	AX.3A	
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Physical	Size	360 mm x 111 mm x 53 mm
	Weight	2.55 kg
	Mounting hole spacing	330 mm; Ø 7 mm, suitable for ¼" screws or rivets
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Environmental	Operating temperature (EN 50155, Class TX)	-35 °C ... +50 °C; Electronics operational up to +85 °C
	ATEX ambient temperature (EN 60079-0)	-40 °C ... +60 °C
	Altitude	2000 m / 6562 feet
	Ingress Protection	IP66/IP67, IPx9k
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Energy	Battery type	NiMH
	Nominal battery voltage	2.4 V
	Battery capacity	38.4 Wh
	Energy harvesting source	Solar panel
	Primary Battery	None
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Shock detection	± 16 g	
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GNSS	Supported networks	GPS/QZSS, GLONASS, Galileo, BeiDou
	No. of channels	72
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Cellular	Frequency bands	4G (NB-IoT, Cat-M1) Bands; 2, 3, 4, 5, 8, 12, 13, 20, 26, 28
	2G (GSM)	850/900/1800/1900 MHz



IEEE 802.15.4	Frequency range	2405 MHz ... 2480 MHz
Bluetooth Low Energy	5.1	ISM Band (2.402 GHz ... 2.480 GHz)
NFC	ISO 15693, 13.56 MHz	Passive, connected to microcontroller
ITSS Interface 2		ready
Lifetime	Maintenance free	6 to 10 years depending on environmental conditions and use of device

Environment:

RoHS

WEEE

IEC 61373 Category 1, Class A
(Vibrations and shocks for rail)

IEC 60529 (IP66/IP67)

ISO 20653 (IPx9k)

EN 50155

EN 50125-1

ATEX and IECEx:

ATEX Certificate Number EPT 20 ATEX 4088

IECEx Certificate Number EUT 20.0026

Directive 2014/34/EU

EN 60079-0 and IEC 60079-0

EN 60079-11 and IEC 60079-11

II 2 GD

Ex ib IIC T4 Gb

Ex ib IIIC T135°C Db

Product Safety:

IEC 62368-1

EN 45545-2

IEC 62133-1

Normal Location

UL 62328-1

CSA C22.2 No. 62368-1

Radio Equipment and EMC:**HazLoc:**



Directive 2014/53/EU
EN 301 489

EN 50121-3-2

EN 301 908-1

EN 301 511

EN 300 328

EN 300 330

EN 303 413

EN 62311

FCC ID: 2AXRX-AX3A

IC: 26682-AX3A

IFT: RTIMOM717-0893

MET Laboratories, Inc. Certification Number:
E114777

ANSI/UL 60079-0

ANSI/UL 60079-11

Class I, Zone 1, AEx ib IIC T4 Gb

Class II, Zone 21, AEx ib IIIC T135°C Db

Class I, II, III, Division 2, Groups A, B, C, D, F, G, T4

CAN/CSA C22.2 No. 60079-0

CAN/CSA C22.2 No. 60079-11

Ex ib IIC T4 Gb

Ex ib IIIC T135°C Db



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