



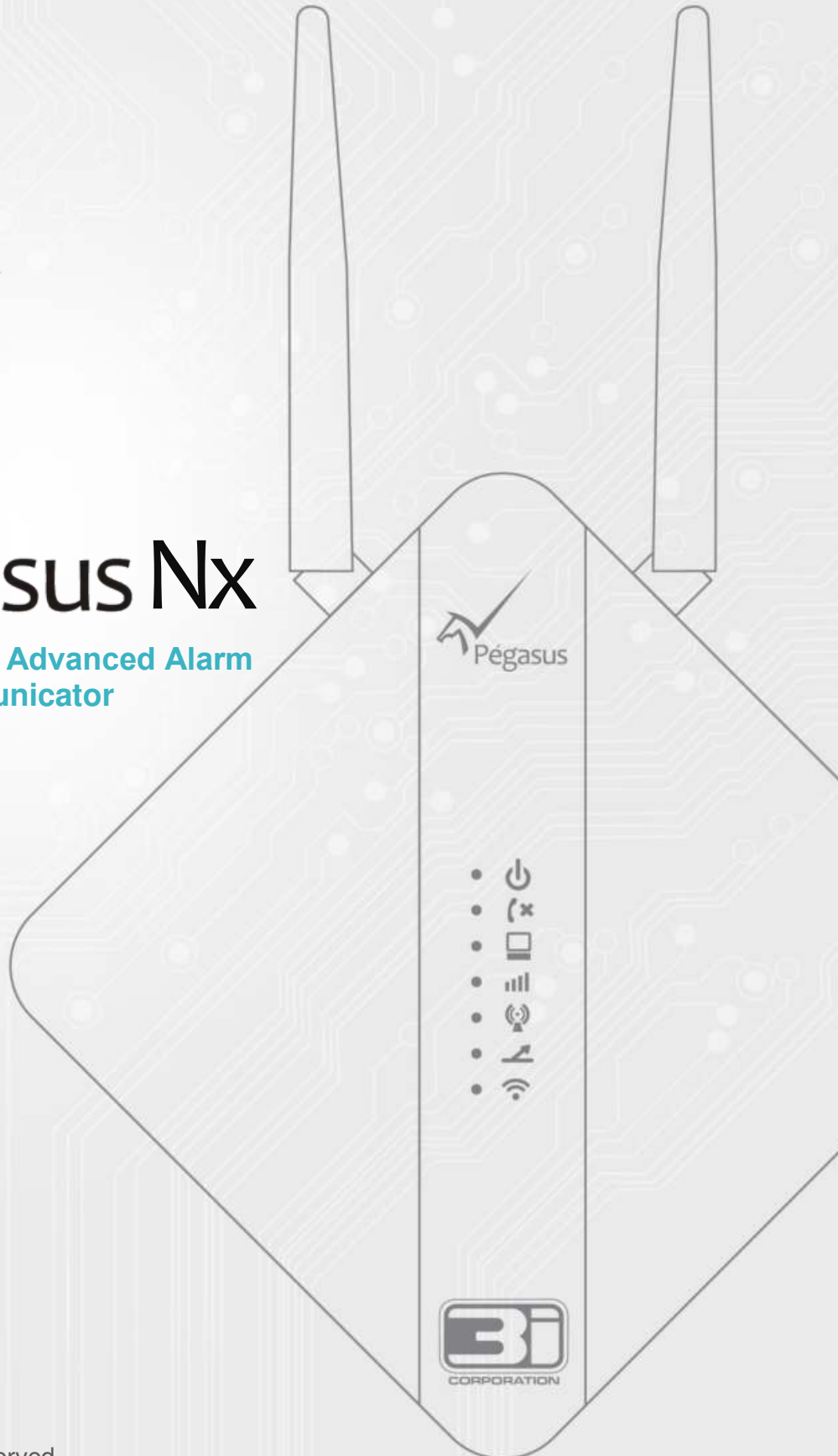
# Technical Specifications



## Pegasus Nx

World's Most Advanced Alarm  
Panel Communicator

# 4G



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## Introduction

### What is Pégasus Nx?

Pégasus™ Nx Alarm Panel Communicator is an extremely compact, robust device in terms of communication interface for Alarm Panels. It brings the most innovative and reliable technologies for data communication to the Fire and Intrusion Alarm Panels prepared to operate only with conventional telephone lines.

When energized, Pégasus™ Nx enters the Ethernet TCP/IP (Intranet/Internet) or 2G/4G operator network via data channel or Wi-Fi Network, and though it establishes connection with the Zeus™ Server. It creates an online communication channel between the monitored client and the Alarm Monitoring Station, allowing immediate transmission of all events generated by the alarm panel in the Contact ID Protocol.

All information transmitted by the device is encrypted (AES Rijndael128/256 bits) ensuring maximum confidentiality.

The Zeus™ server, on the other hand, is a multitask software that works as a virtual receiver, capturing the events transmitted by the device and transmitting them to the monitoring software like a conventional receiver simulating the communication protocol of Ademco-685, Sur-Gard MLR2-DG, Sur-Gard via TCP/IP, Domus-4, CM-PLUS, and Radionics D6600 receivers.

### Contact Information or Comments

For general contact, technical support, questions or comments to report documentation errors and suggestions, email us at [info@bismark.net.co](mailto:info@bismark.net.co)

Our aim is to make this Technical Specifications document as helpful as possible. Keep us informed of your comments and suggestions for improvements.

3i-Corporation® appreciates feedback from the users of our information.



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## Technical Specifications



### Power Supply

1	Input Voltage Range	9VDC – 15VDC	2	Maximum Input Current	450mA
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### Battery

1	Battery Type	Lithium-Polymer with inbuilt NTC thermistor	4	Battery Cable Length	65mm (Approx.)
2	Capacity	2000mAh	5	Battery Backup	Up to 6 hours depending on network conditions
3	Nominal Voltage	3.7V			



### Processor

1	CPU	ARM 32bit Cortex-M3	2	Clock	32Mhz
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### Ethernet

1	Network Standard	IEEE 802.3u compliant fast Ethernet	4	Protocols	TCP/UDP
2	Data Rate	Full Duplex, 10/100Base TX Ethernet PHY	5	Speed Selection	10/100Mbps
3	Auto Negotiation	Yes			



### LTE Cat. 1

1	Modem	LTE-FDD: B2/3/4/5/7/8/28/66 GSM: B2/3/5/8	5	Remote Firmware Update	Available via FOTA (Firmware Over-The-Air)
2	Protocol Support	TCP/UDP	6	SIM Card Holder	Dual SIM support
3	Antenna Type	SMA Male	7	Antenna Impedance	50Ω
4	Antenna Frequency Range	700-2700MHz	8	Antenna Peak Gain	2.5DBi





## Wi-Fi

1	Network Standard	IEEE 802.11 b/g	4	Antenna Frequency Range	2.4 - 2.5GHz
2	Antenna Type	SMA-RP Male	5	Antenna Peak Gain	2.0dBi
3	Antenna Impedance	50Ω	6	Security Types	WPA, WPA2



## Zones

1	Number of Wired Zones	Two (extendible to four zone inputs)	3	Supporting Modes	Single and double modes
2	EOLR (End of Line Resistor)	1K, and 2.2K			



## PGMs

1	PGMs-OC	Supports 200mA, 16V sink current per PGM	2	PGM-Relay	Supports 125VAC/60VDC @2A
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## Telephone Line Connection

1	Maximum Telephone Line Voltage Detection	100VAC, 48VDC	2	Minimum Telephone Line Voltage Detection	3VDC
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## Virtual Telephone Line Output

1	Constant Current Source for Alarm Panel	25mA, 20V			
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## Serial Port

1	Serial Debug Interface	10 PIN male, right-angled box header	3	Use	For configuration, firmware upgrade and to view debug messages
2	Baud Rate	115200 baud			



## USB

1	USB 2.0 Device Interface	Mini-B USB	3	Speed	12Mbps
2	Cable Type	USB cable with ferrite core (recommended)	4	Use	For configuration, firmware upgrade and to view debug messages



### LEDs (Top to Bottom)

1	LED #1	Power ON Status	5	LED #5	2G/4G Modem Status
2	LED #2	Telephone Line Cut Off	6	LED #6	Alarm Panel Return Connection
3	LED #3	Online	7	LED #7	Wi-Fi Status
4	LED #4	2G/4G Signal Strength			



### Environment

1	Operating Temperature	-20°C - 60°C	3	Storage Temperature	-20°C - 60°C
2	Relative Humidity	10-90%, no condensation			



### Tamper Switch

1	Tamper Type	Internal	2	Use	Reports enclosure violation
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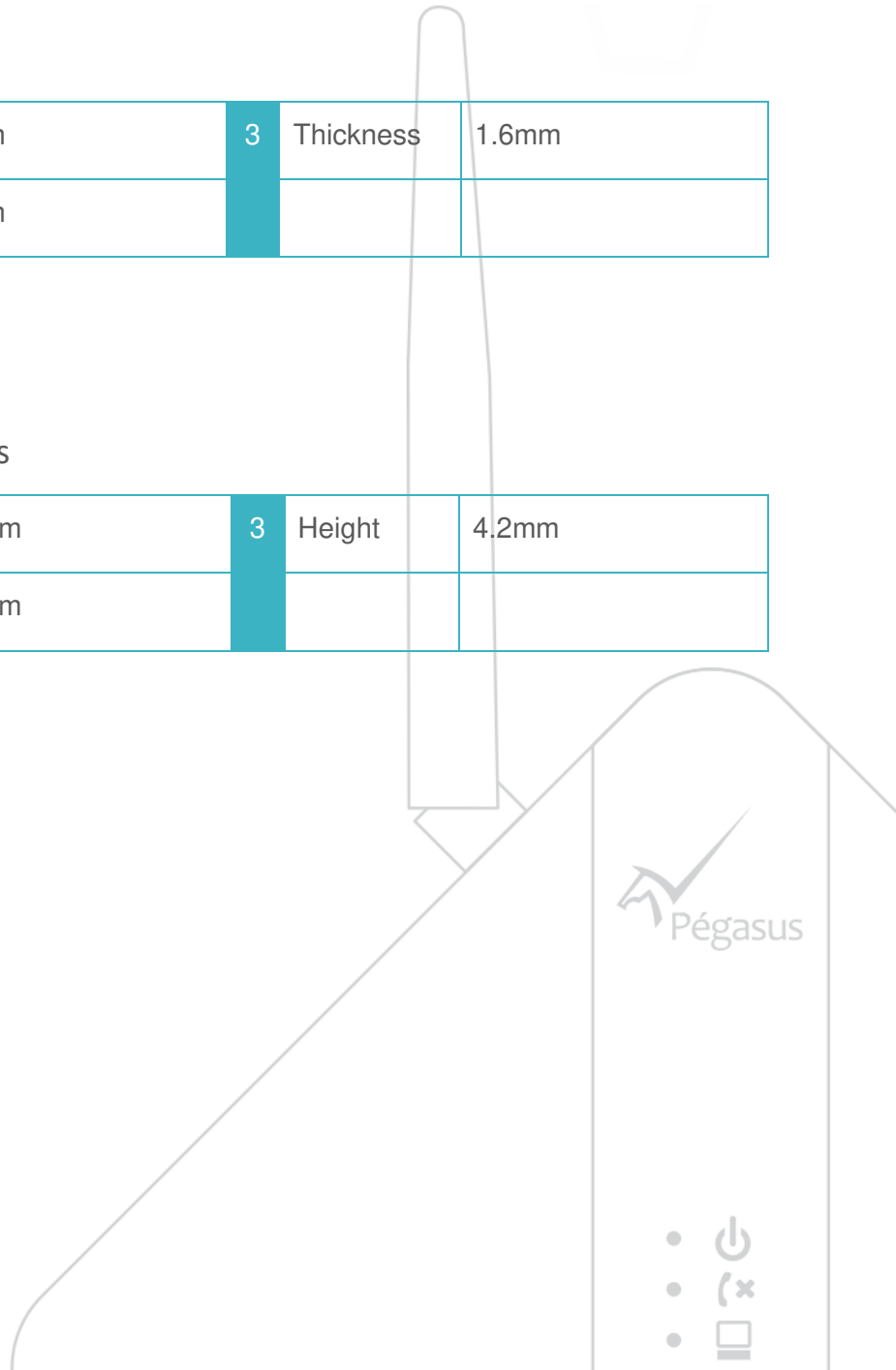
### Board Dimensions

1	Length	82mm	3	Thickness	1.6mm
2	Width	80mm			



### Enclosure Dimensions

1	Length	112mm	3	Height	4.2mm
2	Width	112mm			



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