

thiamis™

820G



- 4-in-1 Controller, Data logger, Modem and GPS
- Communications Link Fail Over
- Over-the-Air Configuration
- Plug-and-Play
- Low-Power

The Thiamis™ is a vital component of Neutronix's remote monitoring suite. It combines control, data logging, global positioning and telemetry into one compact and purpose-built device, making it the most advanced and cost effective solution for remote monitoring applications in the environmental sector.

The Thiamis™ 820G can interface with—and control—any type of sensor or external device in the field and establishes direct, secure communications with Neutronix's data center, via its built-in GSM/3G modem. The Thiamis also allows for alternate means of telecommunications, both for fail-over and to accommodate deployments in remote regions where GSM/3G may not be available. The Thiamis is designed for plug-and-play operation, with no complex installation, and supports over-the-air configuration and re-programming, reducing or eliminating costly field trips.





product specifications

communications		gps	
Quad-band GSM/ GPRS/HSPA+	850/900/1800/1900 MHz	Sensitivity	-159 dBm (indoor operation)
Output Power	Class 4 (2W) @ 850/900 MHz	Accuracy	<2.5 m (8 ft)
	Class 1 (1W) @ 1800/1900 MHz	Channel	20
Sensitivity	-107 dBm (typ.) @ 850/900 MHz	SBAS Support	WAAS and EGNOS
	-106 dBm (typ.) @ 1800/1900 MHz	Correlators	> 200,000
GPRS	Class 10	Antenna	SMB jack connector
Antenna	SMA male connector		
SIM Card	Pre-installed		
controller / data logger		general	
Clock	Real-time	Input Voltage	6-24VDC
Memory	4MB (up to 16MB)	Current Consumption	50mA
Digital Ports	RS-485, RS-232 (3 Multiplexed), SDI-12	Temperature Range	-30 °C to 75 °C (-22 °F to 167 °F)
DeltaPort	Expansion port for Analog and Digital I/O modules	Humidity Range	0-90% non-condensing
		L x W x H	5.1"(130mm) x 2.72"(69mm) x 1" (30mm)
certifications			
CE, FCC, RoHS	*more certifications in process		



Netronix Inc.

3401 Grays Ferry Ave.
Philadelphia, PA 19146 USA
+1 (215) 475-5133



[@netronixgroup](https://twitter.com/netronixgroup)
www.netronixgroup.com