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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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frontline BPA low energy

BLUETOOTH[®] PROTOCOL ANALYZER

Bluetooth low energy wireless technology is rapidly changing how the wireless world connects. Consuming only a fraction of the power of Basic Rate/Enhanced Data Rate (BR/EDR) Bluetooth wireless technology, Bluetooth low energy (Bluetooth Smart technology) will allow hundreds of millions of new wireless devices to interoperate within the Bluetooth ecosystem. From watches, sports and fitness devices, to wellness, healthcare and more, Bluetooth Smart technology is expected to greatly accelerate the wireless evolution.

Tiny Footprint, Huge Tracks

In an increasingly mobile world, it's more important than ever that developers' tools are just as mobile as the devices and technologies they're creating. Frontline puts problem-solving literally in the palm of your hand with the Frontline BPA low energy Bluetooth Protocol Analyzer. Smaller than a deck of cards and running on USB power, the Frontline BPA low energy packs a serious punch, decoding all traffic including advertising packets, data packets and LL control packets, and providing visibility into all three advertising channels concurrently, even before the connection is established. A single BPA low energy follows multiple connection requests from the same master to capture the resulting connections. Supports low energy features through Bluetooth 4.2 except optional extended packet length.

But powerful tools don't have to be hard to use. With the Frontline BPA low energy, setup is easy and requires no synchronization to devices - just start capturing. Working with custom protocols? No problem. The BPA low energy includes DecoderScript, which allows specifying decodes for custom protocols.

The Frontline BPA low energy Bluetooth Protocol Analyzer is the first name in portable, USBpowered, and affordable Bluetooth low energy analysis, and features the rich decoding toolset represented by the powerful software at the core of our Frontline family of developer-class protocol analysis products.

Filter Tabs isolate frames by profile or protocol for quick and convenient viewing of specific kinds of data.

Baseband LE BB LE PK		nergy devi		Data				
Bookmark	Frame#	Role	Opcode	Handle	UUID	Database	Error code	Fram
	321	Master	Read Request	6	Characteristic	d386ffbb(S)		22
	324	Slave		7	Peripheral Preferred Connection Pa	d386ffbb(S)		25
	325	Master	Read Request	7	Peripheral Preferred Connection Pa	d386ffbb(S)		22
	328	Slave	Read Response	7	Peripheral Preferred Connection Pa	d386(fbb(S)		28
	331	Master	Read Request	8	Primary Service	d386(lbb(S)		22
	334	Slave	Read Response	8	Generic Attribute Profile	d386ffbb(S)		22
	337	Master		9	Primary Service			22
	340	Slave		9	Glucose			22
	343	Master		10	Characteristic			22
	346	Slave		11	Glucose Measurement			25
	347			11	Glucose Measurement			22
	350			11	Slucose Measurement			22
								22
								27
								22
								25
								23
								21
								22
								25
								22
								23
	6.607	Master	Bead Bequest	14				22
	6.610	Slave	Bead Besponse	14				21
								23
								22
								21
	22,735	Master		14				22
4			19.000331535325355				-	
	Bootmark	Bookmark Frame 221 224 225 238 331 343 343 343 343 343 343 345 347 355 367 369 367 369 367 369 369 369 369 369 369 369 369	Bootmark Fremett Roke 221 Matter 324 224 Matter 325 225 Matter 328 233 Matter 334 244 Store 337 247 Matter 348 343 Matter 349 346 Store 355 356 Store 358 357 Matter 358 358 Store 357 358 Matter 358 359 Matter 359 360 Matter 359 370 Store 359 350 Matter 350 361 Matter 359 370 Store 507 388 Matter 519 398 Matter 519 398 Matter 510 398 Matter 510 398 Matter 510	Bosknak Franzi Role Opcode 221 Matter Read Reporter Read Reporter 232 State Read Reporter Read Reporter 233 Matter Read Reporter Read Reporter 233 Matter Read Reporter Read Reporter 234 State Read Reporter Read Reporter 233 Matter Read Reporter Read Reporter 234 Matter Read Reporter Read Reporter 236 Matter Read Reporter Read Reporter 237 Matter Read Reporter Read Reporter 238 Steve Read Reporter Read Reporter 239 Matter Read Reporter Read Reporter 230 Matter Read Reporter Read Reporter 230 M	Boskmark Funest Role Opcode Hande 221 Matter Read Request 6 224 Silver Read Request 7 225 Matter Read Request 7 233 Silver Read Request 7 234 Silver Read Request 8 237 Silver Read Request 9 238 Silver Read Request 9 244 Silver Read Request 10 345 Silver Read Request 11 350 Silver Read Request 11 355 Matter Read Request 12 358 Silver Read Request 12 359 Silver Read Request 12 369 Matter Read Request 13 369 Matter Read Request 14 377 Silver Read Request 14 378 Silver Read Request	Boshnak Funett Rode Opcode Hande UUID 321 Matter Redd Request 6 Characteristic 324 Stave Redd Request 6 Characteristic 324 Stave Redd Request 7 Perphonal Petered Correction Pa 325 Matter Redd Request 7 Perphonal Petered Correction Pa 323 Stave Read Request 7 Perphonal Petered Correction Pa 326 Stave Read Request 8 General Albade Puterel 327 Stave Read Request 8 General Albade Puterel 327 Stave Read Request 9 Disoce 328 Stave Read Request 10 Disoce 329 Stave Read Request 11 Glucose Measurement 343 Matter Redd Request 12 Disoce Blactorise 347 Matter Redd Request 13 Chacteristic Reverstave Blactorise Blactorise <	Boshnak Funnst Red Opcode Hande UUID Database 321 Mater Red Repart 6 Cheadeninic G3801bb15 324 Silver Red Repart 7 Perjohand Perlemd Convector Pa. G3801bb15 325 Mater Red Reporter 7 Perjohand Perlemd Convector Pa. G3801bb15 331 Mater Red Reporter 8 Emersch Cable Perlet G3801bb15 331 Mater Red Reporter 8 Emersch Cable Perlet G3801bb15 343 Mater Red Reporter 9 Clocotar- G3801bb15 343 Mater Red Reporter 9 Clocotar- G3801bb15 346 Slave Red Reporter 11 Clocotar- G3801bb15 350 Slave Red Reporter 12 Clocotar- G3801bb15 350 Slave Red Reporter 12 Clocotar- G3801bb15 350 Slave Red Reporter 12 Clocotar-	Bookmark Frandt Rod Opcode Harde UUID Ladasse Ener code 321 Matter Read Request 6 Dawadeninic d3081bbb(5) 324 Silver Read Request 6 Dawadeninic d3081bbb(5) 324 Silver Read Request 7 Perpharin Preferred Corrector Pa

Decode Pane shows comprehensive layered decoders of each frame/message with clear, concise descriptions.

Summary Pane displays a one line overview of each data frame/message. Click on any line to reveal detail in mutiple panes below.

The Frontline BPA low energy Protocol Analyzer includes powerful Frontline software and the BPA low energy hardware interface.

Key Benefits

- Analyze NOW see events as they occur through live decoding and decryption of encrypted data
- Extraordinarily portable size and USB-powered make this the perfect tool for bench or field
- No Hassles Decoding features simple device setup for developers of Bluetooth Smart and Smart Ready technologies just plug into the USB port and go!
- Excellent Value
 Tailored specifically to low energy analysis, the Frontline BPA low energy features maximum value for the money
- Industry-best Decodes
 Bluetooth decodes that make
 for reliable development and
 problem-solving
- Maximum Flexibility DecoderScript lets you specify decodes for custom protocols
- Faster to Market
 Reduces debug time with
 simultaneous live capture, display,
 decode, filtering and detection of
 protocol errors
- Support for CSRMesh and Bluetooth mesh technology



Hardware Specifications

- Bus Type: USB 2.0 Mini-B
- Power: USB Powered (USB 2.0)
- Effective Receiver Sensitivity: -90.0 dBm for GFSK
- Dimensions:
 3.5" X 1.75" X .71"
 89mm X 44.5mm X 18mm
- Temperature: Storage Temperature: 0° to 65° Celsius
 32° to 149° Fahrenheit

Operating Temperature: 5° to 55° Celsius 41° to 131° Fahrenheit

 Humidity:
 Operating: 10% to 90% RH (noncondensing)

The Frontline BPA[®] low energy Hardware

Interface

The Frontline BPA low energy Protocol Analyzer includes the portable BPA low energy hardware interface, which supports the wireless capture of Bluetooth low energy communications.

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The BPA low energy hardware interface is one member of an extensive arsenal of technology-specific hardware interfaces, all

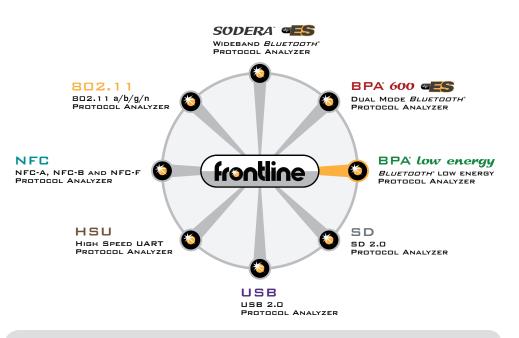
functioning with the powerful Frontline software. This modular approach allows greater flexibility in protocol analysis and debugging, and provides comprehensive coexistence views over virtually any combination of protocols.

Supported Configurations

- OS Supported: Win 7 and Win 8
- USB Port: USB 2.0 or USB 3.0 High-Speed

Minimum System Requirements

- Processor: Core i5 processor at 2.7 GHz
- RAM: 4 GB
- Free Hard Disk Space: 20 GB



The Frontline Modular Approach

Frontline software is at the core of Frontline protocol analysis, allowing technologyspecific hardware interfaces to work individually or in combination with other hardware interfaces. This modular approach gives the developer or analyst the widest possible range of scenarios for debugging complex communications.

To order or for more information:

www.fte.com frontline_onlinesales@teledyne.com 1.800.359.8570 US & Canada +1.434.984.4500 Fax: 434.984.4505



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