


## USB Explorer 200 - Comparison chart

|   |  |  |  |  |
|---|---|--|---|---|
|   |   | USB Explorer 200 Basic   | USB Explorer 200 Standard   | USB Explorer 200 Professional   |
| <b>Specification</b>                                    |   |  |   |   |
| USB 1.1   |   | yes  | yes   | yes   |
| USB 2.0   |   | yes  | yes   | yes   |
| USB OTG   |   |  | yes   | yes   |
| <b>Link analysis</b>                                    |   |  |   |   |
| Automatic speed discovery                               |   | yes  | yes   | yes   |
| Low speed (1.5 Mbit/s)                                  |   | yes  | yes   | yes   |
| Full speed (12 Mbit/s)                                  |   | yes  | yes   | yes   |
| High speed (480 Mbit/s)                                 |   | yes  | yes   | yes   |
| <b>Recording</b>  |   |  |   |   |
| Real-time monitoring                                    |   | yes  | yes   | yes   |
| Hard-disk streaming support                             |   | yes  | yes   | yes   |
| Circular buffer   |   | yes  | yes   | yes   |
| Recording limits  |   | yes  | yes   | yes   |
| Recording and analysis of packets and electrical states |   | yes  | yes   | yes   |
| Unlimited trace size with real-time download            |   | yes  | yes   | yes   |
| Timestamp precision                                     |   | 16.66 ns   | 16.66 ns  | 16.66 ns  |
| <b>User Interface</b>                                   |   |  |   |   |
| Global view   |   | yes  | yes   | yes   |
| Detailed view   |   | yes  | yes   | yes   |
| Packets layer   |   | yes  | yes   | yes   |
| Transactions layer                                      |   | yes  | yes   | yes   |
| Transfers layer   |   | yes  | yes   | yes   |
| Rarely used fields hidden by default                    |   | yes  | yes   | yes   |
| Decoded textual values                                  |   | yes  | yes   | yes   |
| Decimal values  |   | yes  | yes   | yes   |
| Hexadecimal values                                      |   | yes  | yes   | yes   |
| Binary values   |   | yes  | yes   | yes   |
| Consecutive SOFs grouping                               |   | yes  | yes   | yes   |
| Consecutive NAKs grouping                               |   | yes  | yes   | yes   |
| Descriptors decoding                                    |   | yes  | yes   | yes   |
| Standard requests decoding                              |   | yes  | yes   | yes   |
| Detection of errors in descriptors                      |   | yes  | yes   | yes   |
| <b>On-The-Go</b>  |   |  |   |   |
| OTG Descriptor  |   |  | yes   | yes   |
| OTG Requests  |   |  | yes   | yes   |
| <b>Real-time monitor</b>                                |   |  |   |   |
| Performance counters                                    |   |  | yes   | yes   |
| Performance graphs                                      |   |  | yes   | yes   |

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|--|--|-----|-------------|------|
| Errors indication                                  |  |     | yes         | yes  |
| Frame composition display                          |  |     | yes         | yes  |
| <b>Traffic summary</b>                             |  |     |             |      |
| Bus states summary                                 |  |     | yes         | yes  |
| Packets summary                                    |  |     | yes         | yes  |
| Transactions summary                               |  |     | yes         | yes  |
| Split transactions summary                         |  |     | yes         | yes  |
| Setup Transfers summary                            |  |     | yes         | yes  |
| Errors summary                                     |  |     | yes         | yes  |
| Summary on all traces elements                     |  |     | yes         | yes  |
| Summary on filtered trace elements                 |  |     | yes         | yes  |
| Navigation through summary elements                |  |     | yes         | yes  |
| Export capability to text, CSV or XML files        |  |     | yes         | yes  |
| <b>Capture filtering</b>                           |  |     |             |      |
| Start of Frames filtering                          |  |     | yes         | yes  |
| NAK transactions filtering                         |  |     | yes         | yes  |
| Partial payload filtering                          |  |     | yes         | yes  |
| Filter transactions based on device address        |  |     | yes         | yes  |
| Filter transactions based on endpoint number       |  |     | yes         | yes  |
| Advanced filters based on token, data or handshake |  |     | yes         | yes  |
| <b>Post-capture filtering</b>                      |  |     |             |      |
| Start of Frames filter                             |  | yes | yes         | yes  |
| NAK transactions filter                            |  | yes | yes         | yes  |
| Split transactions filter                          |  | yes | yes         | yes  |
| Bus states filter                                  |  | yes | yes         | yes  |
| Instant filters                                    |  | yes | yes         | yes  |
| <b>Search</b>                                      |  |     |             |      |
| Transactions                                       |  | yes | yes         | yes  |
| Split transactions                                 |  | yes | yes         | yes  |
| Data with mask                                     |  | yes | yes         | yes  |
| Requests with mask                                 |  | yes | yes         | yes  |
| Strings  |  | yes | yes         | yes  |
| Errors   |  | yes | yes         | yes  |
| <b>Export (more...)</b>                            |  |     |             |      |
| Text format  |  | yes | yes         | yes  |
| XML format   |  | yes | yes         | yes  |
| Binary format                                      |  | yes | yes         | yes  |
| Traffic  |  | yes | yes         | yes  |
| Endpoints data                                     |  | yes | yes         | yes  |
| Requests   |  | yes | yes         | yes  |
| Descriptors  |  | yes | yes         | yes  |
| <b>USB Classes Decoding (more...)</b>              |  |     |             |      |
| Hub  |  |     | full        | full |
| Mass Storage                                       |  |     | descriptors | full |
| Wire Adapter                                       |  |     | descriptors | full |
| Audio  |  |     | descriptors | full |
| Human Interface Device                             |  |     | descriptors | full |
| Bluetooth® HCI                                     |  |     | descriptors | full |

|   |  |                |                |                |
|---|--|----------------|----------------|----------------|
| Still Image                               |  |                | descriptors    | full           |
| Communication                             |  |                | descriptors    | full           |
| DFU                                       |  |                | descriptors    | full           |
| Diagnostic Device                         |  |                | descriptors    | full           |
| Wireless Controller                       |  |                | descriptors    | full           |
| Smart Card                                |  |                | descriptors    | full           |
| Video                                     |  |                | descriptors    | full           |
| Vendor Specific                           |  |                | descriptors    | full           |
| WUSB Wire Adapter                         |  |                | descriptors    | full           |
| Test & Measurement                        |  |                | descriptors    | full           |
| <b>Software Development Kit (more...)</b> |  |                |                |                |
| C++ version                               |  |                |                | yes            |
| <b>Hardware Trigger (more...)</b>         |  |                |                |                |
| External IN or OUT                        |  |                |                | yes            |
| Frame Packets                             |  |                |                | yes            |
| Splits Packets                            |  |                |                | yes            |
| Tokens Packets                            |  |                |                | yes            |
| Data Packets                              |  |                |                | yes            |
| Data Pattern                              |  |                |                | yes            |
| Handshake Packets                         |  |                |                | yes            |
| Bus Conditions                            |  |                |                | yes            |
| Trigger Conditions                        |  |                |                | yes            |
| Error Conditions                          |  |                |                | yes            |
| Events Counting                           |  |                |                | yes            |
| Events Sequencing                         |  |                |                | yes            |
| <b>Hardware</b>                           |  |                |                |                |
| Non-intrusive analysis                    |  | yes            | yes            | yes            |
| Memory                                    |  | 32 MBytes FIFO | 32 MBytes FIFO | 32 MBytes FIFO |
| External trigger connector                |  | yes            | yes            | yes            |
| Upgradable hardware                       |  | yes            | yes            | yes            |
| Powered by the USB bus                    |  | yes            | yes            | yes            |
| Warranty                                  |  | 2 years        | 2 years        | 2 years        |
| <b>Download of analyzed data</b>          |  |                |                |                |
| High speed (480 Mbit/s)                   |  | yes            | yes            | yes            |
| Full speed (12 Mbit/s)                    |  | yes            | yes            | yes            |
| <b>Enclosure</b>                          |  |                |                |                |
| Width                                     |  | 150 mm         | 150 mm         | 150 mm         |
| Length                                    |  | 120 mm         | 120 mm         | 120 mm         |
| Height                                    |  | 65 mm          | 65 mm          | 65 mm          |
| Weight                                    |  | 750 g          | 750 g          | 750 g          |