

Ellisys USB 2.0 Protocol Analyzer

USB Explorer 200 - Comparison chart



USB
Explorer 200
Basic



USB
Explorer 200
Standard



USB
Explorer 200
Professional

| Specification | | | |
|---|----------|----------|----------|
| USB 1.1 | yes | yes | yes |
| USB 2.0 | yes | yes | yes |
| USB OTG | | yes | yes |
| Link analysis | | | |
| 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 |
| Recording | | | |
| 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 |
| User Interface | | | |
| 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 |
| On-The-Go | | | |
| OTG Descriptor | | yes | yes |
| OTG Requests | | yes | yes |
| Real-time monitor | | | |
| Performance counters | | yes | yes |
| Performance graphs | | yes | yes |
| Errors indication | | yes | yes |
| Frame composition display | | yes | yes |
| Traffic summary | | | |
| 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 |
| Capture filtering | | | |
| 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 |
| Post-capture filtering | | | |
| 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 |
| Search | | | |
| 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 |
| Export (more...) | | | |
| 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 |
| USB Classes Decoding (more...) | | | |
| Hub | full | 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 |
| Software Development Kit (more...) | | | |
| C++ version | | | yes |
| Hardware Trigger (more...) | | | |
| 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 |
| Hardware | | | |
| 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 |
| Download of analyzed data | | | |
| High speed (480 Mbit/s) | yes | yes | yes |
| Full speed (12 Mbit/s) | yes | yes | yes |

| Enclosure | | | |
|------------------|--------|--------|--------|
| 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 |