



## Bluetooth V1.2 Protocol Analyzer

Based on CATC's innovative Merlin™ product line, Merlin II™ is a powerful protocol analyzer offering for Bluetooth®. It is fully compliant with the Bluetooth version 1.2 specification and has a unique and highly portable form factor.

Merlin II has a small form factor that makes it ideal for use in tight workspaces and easy to position for optimal antenna placement and data capture. Merlin II features extensive triggering and robust filtering capabilities, enabling the user to focus only on relevant data and avoid lengthy and laborious searches through captured data. The analyzer can spool data to an external disk drive to provide large virtual memory for long recording sessions.

Merlin II leverages the sophisticated and intuitive CATC Trace™ expert software system to enable Bluetooth developers to quickly pinpoint problems with an easy-to-use graphical interface.



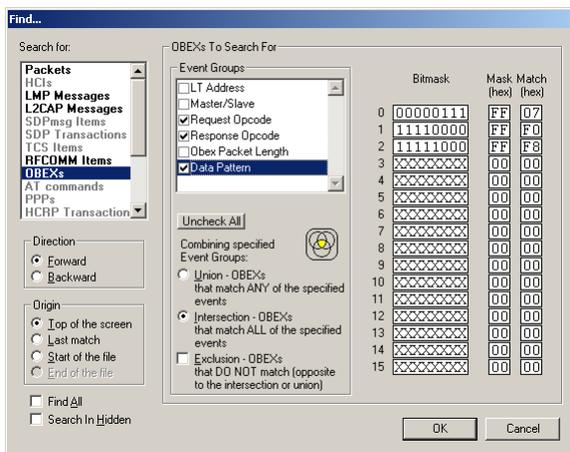
For complete product information, please visit [www.catc.com](http://www.catc.com).

FEATURES	BENEFITS
• CATC Trace Expert Software System	De-facto industry standard speeds up interpretation and debug of Bluetooth traffic
• Extensive Protocol and Profiles Decoding	Automatically decodes: Baseband, HCI, LMP, L2CAP, SDP, TCS, RFCOMM, OBEX, AT commands, HCRP, HDLC, BNEP, HID, AVCTP, AVDTP, Handsfree and PPP (including LCP, CCP, CHAP, NBFCP, NetBIOS), IPv4, IPv6, TCP & UDP
• Disk Spooling	Spool data to hard drive allowing for long recording sessions and short uploading time
• Automatically Decodes Encrypted Traffic	Decodes entire piconet without requiring the need to participate in the piconet
• Completely Non-intrusive	Record piconet traffic using one of the analyzers many non-intrusive recording modes
• Automatic Device Listing	Capture and store device information automatically; allows editing of device data including encrypted data for repeatable test benchmarks
• Intelligent Reporting	Quickly identify and track errors, abnormalities or time-sensitive conditions (i.e. Hold, Park, SCO, eSCO, AFH and Master/Slave Switch)
• Sophisticated Viewing	Selectively view Bluetooth protocol layers (from a single layer to all layers)
• Real-time Viewing & Analysis	View, mark and analyze Bluetooth traffic while recording or monitoring a piconet
• Advanced Triggering	Isolate important traffic, specific errors or data patterns
• Hardware Filtering	Faster analysis by removing non-essential fields from the trace
• Highly Portable	Ideal for use in tight workspaces and easy positioning for optimal antenna placement and data capture. Can be powered via PS/2 port for added portability
• 3 Year Hardware Warranty	Protect your investment with industry leading warranty

## POWERFUL SEARCH TOOLS

Merlin II utilizes the CATC Trace to present captured data in an immediate, understandable and useful format.

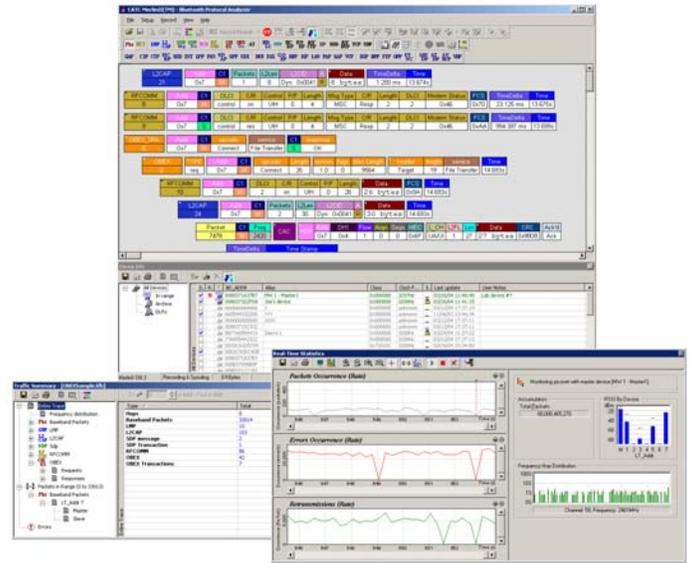
The CATC Trace is a powerful and intuitive expert software system embedding detailed knowledge of the protocol hierarchy and intricacies, as defined in the protocol specification. The software allows the user to control the analyzer and set specific real-time triggering and filtering conditions. The CATC Trace utilizes a graphical display that has been optimized for fast and easy navigation through a captured traffic session. Users are alerted as violations are detected at all levels of the protocol layering and can easily drill-down on areas of interest or collapse and hide fields that are not relevant. A profile selection toolbar enables users to simply select a profile that will automatically select the corresponding protocols for the decoding process.



Quickly isolate specific packets or transactions within a trace file using the CATC Advanced Search functionality

The display software operates independent of the hardware, allowing it to function as a stand-alone “trace viewer” that can be freely distributed.

For additional information on the CATC Trace, please download the White Paper from the CATC website:  
<http://www.cac.com/support/whitepapers/index.html>.



A robust toolset and advanced reporting capabilities make it easy to track and find critical information

## SPECIFICATIONS

### Package

Dimensions: 6.05 x 3 x 1.07 inches (15.5 x 7.6 x 2.7 cm)

Connectors: External Power Connector  
EXT connection (Mini-DIN Female)  
Host connection (USB, type “B”)

Weight: 8.8 oz. (246 g)

### Power Requirements

External Power Supply: 100V-240V AC, 50-60Hz

PS/2 Power Cable: 5V, 800mA DC

### Environmental Conditions

Operating Range: 0 to 55°C (32 to 131°F)

Storage Range: -20 to 80°C (-4 to 176°F)

Humidity: 10 to 90%, non-condensing

### Radio

Bluetooth v1.1 qualified

Class 2

FCC and CE compliant

### Indicators (LEDs)

Status (*Status*): Illuminated when the analyzer is powered on. Flashing indicates initialization self-tests or failure to pass self-test.

Synchronize (*Sync*): Flashing indicates that the analyzer is tracking the defined master device. Illuminated indicates that the analyzer is tracking an active piconet.

Recording (*Rec*): Illuminated when the analyzer is actively recording data.

### Recording Memory Size

Internal 32 MB and Disk spooling capabilities provide large virtual memory for long recording sessions

### Host Compatibility

Requires a PC with a USB port

Supports Windows 98/ME/NT/2000

LeCroy is a global leader in developing, manufacturing, and marketing electronic signal acquisition and analysis products and services.



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