

USB TYPE C USB Power Delivery/Aux Protocol Analyzer

The UPM-100,200 and 300 serials are USB Power delivery protocol analyzer designed for the evolution of the USB Type c and USB power delivery. The UPM serials protocol analyzer can capture the Power Delivery communication raw data on CC lines and decode the messages according to USB power delivery standard.

Especially, UPM-200, add the feature of capturing sideband messages while Type c is working on displayport alternate mode. The sideband messages will be decoded and shown on application. It also adds the features to monitor the voltage and current on VBUS. These features will help uncover elusive protocol errors and will be helpful to validate the USB Type c applications.

Features

- USB Power delivery protocol capture and decode on real-time
 - Timestamp display for data capture
 - Capture and Decode Displayport aux data when type-c is working on Displayport alternate mode.(UPM-200)
 - CC bus wave display and measure
 - Data import and export for offline processing
 - Application/firmware online auto upgrade
 - Can capture USB PD packet and displayport aux data simultaneously(UPM-200)
 - Power tracker, Measure and display the real-time voltage/current on VBUS .(up to 20v/5A, UPM-200)
 - User friendly Application on windows. (windows 7/8/10)
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Software Overview

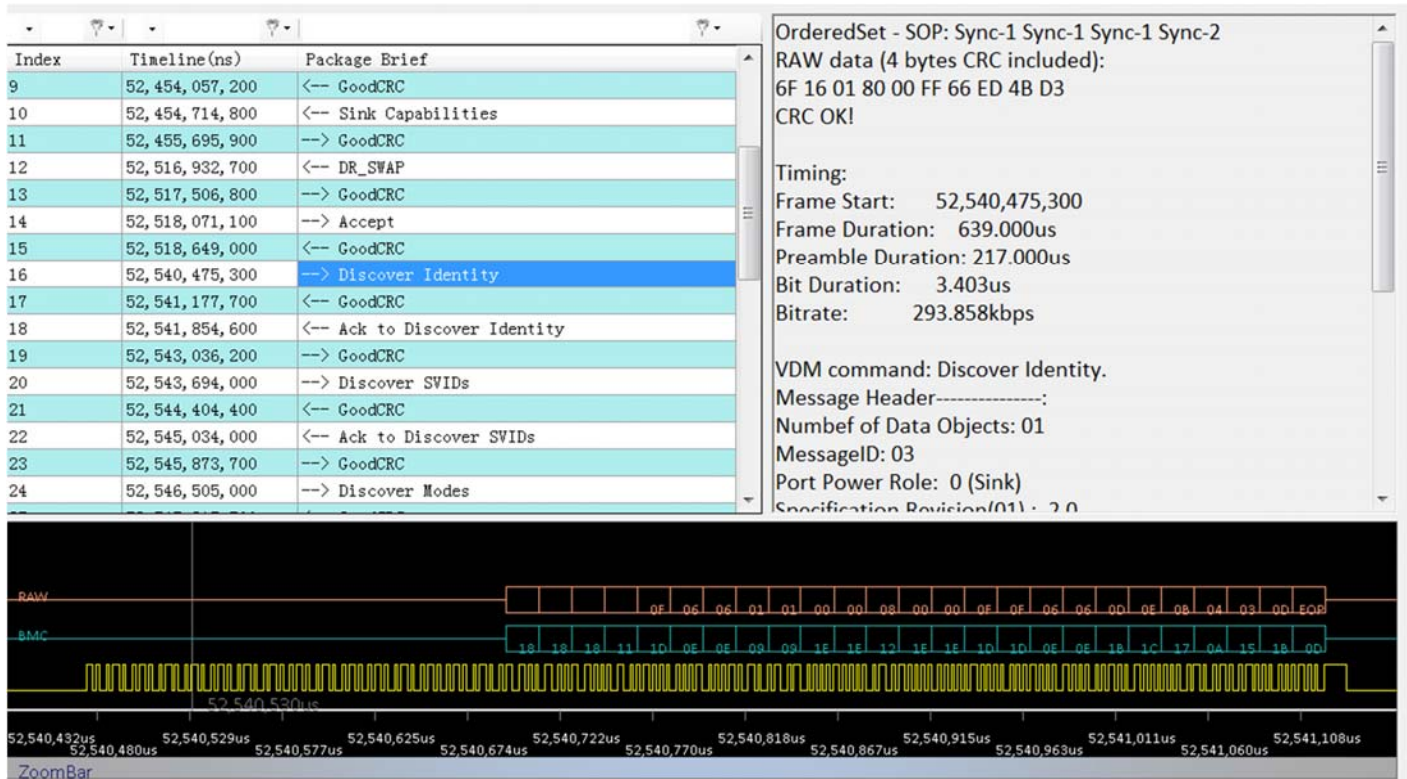


Figure 1 USB PD capture overview

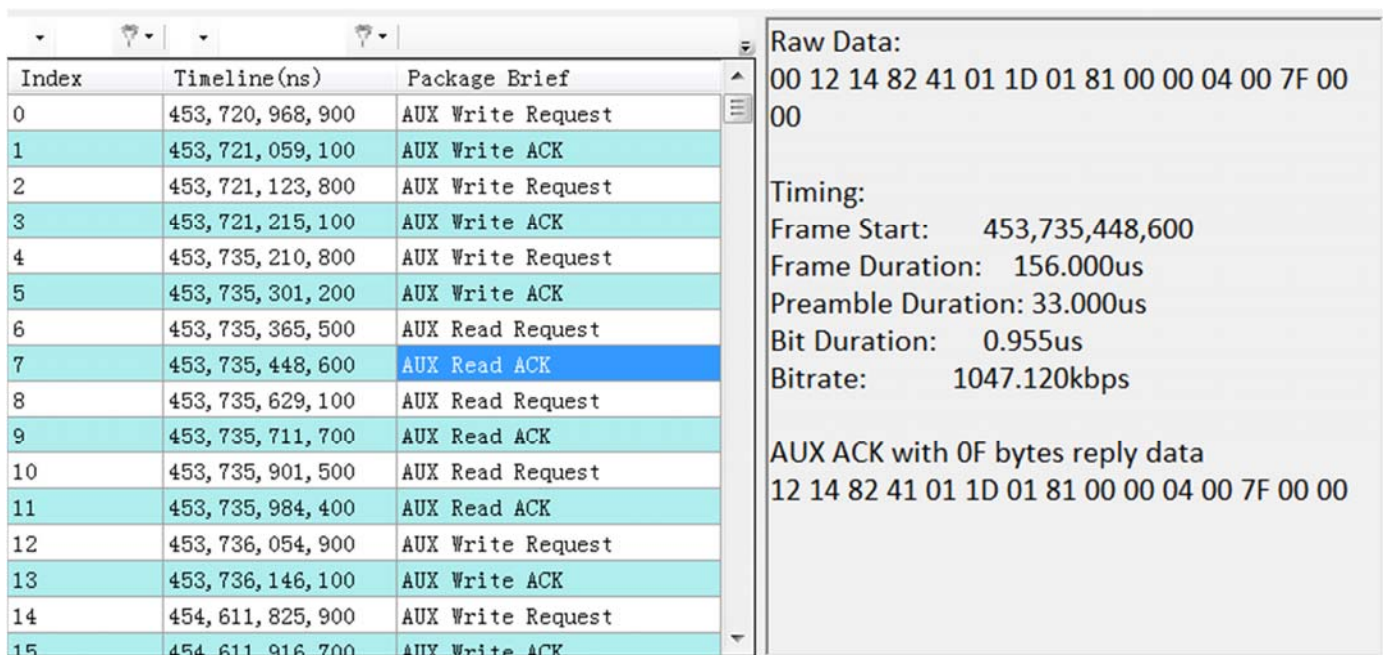


Figure 2 displayport Aux data capture overview

Order information:

Part Name	Description
UPM-100	<ul style="list-style-type: none">• Type C plug to Type c receptacle,• USB Power delivery protocol decoder. (USB PD 2.0)• 180M processor, 8MB data cache
UPM-200	<ul style="list-style-type: none">• Type C plug to Type c receptacle,• USB Power delivery protocol decoder. (USB PD 2.0, USB PD 3.0)• 180M processor, 8MB data cache• Sideband messages decode for displayport alternate mode• VBUS voltage/current monitoring
UPM-300	<ul style="list-style-type: none">• Type C plug to Type c receptacle,• USB Power delivery protocol decoder. (USB PD 2.0)• 108M processor, 4MB data cache,• smaller size than UPM-100

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