USB 3.1 Type-C Connectors

PalCONN, the Interconnect Division of PalPilot

Applications
SuperSpeed Hubs
SuperSpeed A/V
Display Dock
Printer/Tablet
Smart Phone
Webcam/Storage

USB Specifications
USB 2.0
USB 3.1
USB PD Rev 2.0

Data Rates
USB 1.1	12Mbps
USB 2.0	480Mbps
USB 3.0	5Gbps
USB 3.1 Gen 1	5Gbps
USB 3.1 Gen 2	10Gbps

Abbreviations
SS=SuperSpeed
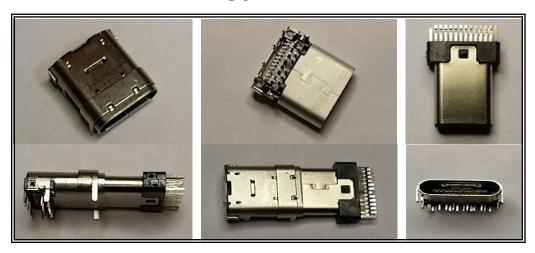SSP=SuperSpeedPlus

Alternate Connectors
Type-C Dual Row SMT
Type-C Hybrid R/A
Type-C Mid-Mount Dual
Row SMT

Type-C Features
Configuration Channel
 (1) Determines Host-to-
      Device relationship.
 (2) Set-up and manages
      Power and Alternate/
      Accessory Modes.

The USB Type-C Connector and Cable specification defines a new receptacle, plug, cable and detection mechanisms that are compatible with existing USB interface electrical and functional specifications.

- **Type-C Compliant Connectors**
    - USB Full Featured Type-C receptacle
    - USB Full Featured Type-C plug
    - USB 2.0 Type-C plug
- **Key Characteristics**
    - Supports SuperSpeed,   Gen 1 at   5Gbps
    - Supports SuperSpeed Plus,   Gen 2 at 10Gbps
    - USB Power Delivery capacity 3A to 5A, up to 100W
    - Reversible plug orientation and cable direction
    - Similar size of USB 2.0 Micro-B
    - Improved EMI and RFI mitigation features
    - Retention features are achieved by side latches in plug and receptacle
    - Advanced power delivery and battery charging features
    - Controls power delivery direction, voltage up to 20V, current up to 5A

www.palconnusa.com