

SCP1803™ | DiIVA™ Daisy Chain Transmitter

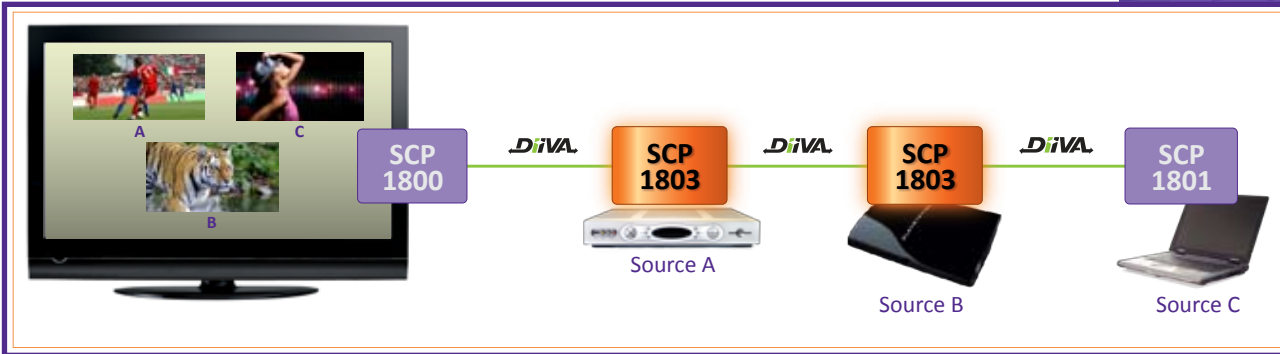
Product Brief

Synerchip™

The SCP1803™ is a DiIVA™ Daisy Chain Transmitter IC designed for digital sources compliant with the DiIVA specification. Through a single DiIVA port, sources simultaneously:

- Send uncompressed audio and high-definition video (including 3D)
- Transmit data including Ethernet, USB, commands and content protection
- Receive power to enable DiIVA PHY even when rest of source device is in standby mode

DiIVA Daisy Chain transmitters have the capability of cascading multiple DiIVA sources to a single DiIVA receiver port. The SCP1803 features one DiIVA output port, one DiIVA input port, four USB ports (3 upstream and 1 downstream), two Ethernet MII/RMII interfaces, one HDMI input and Audio output with S/PDIF and I2S.



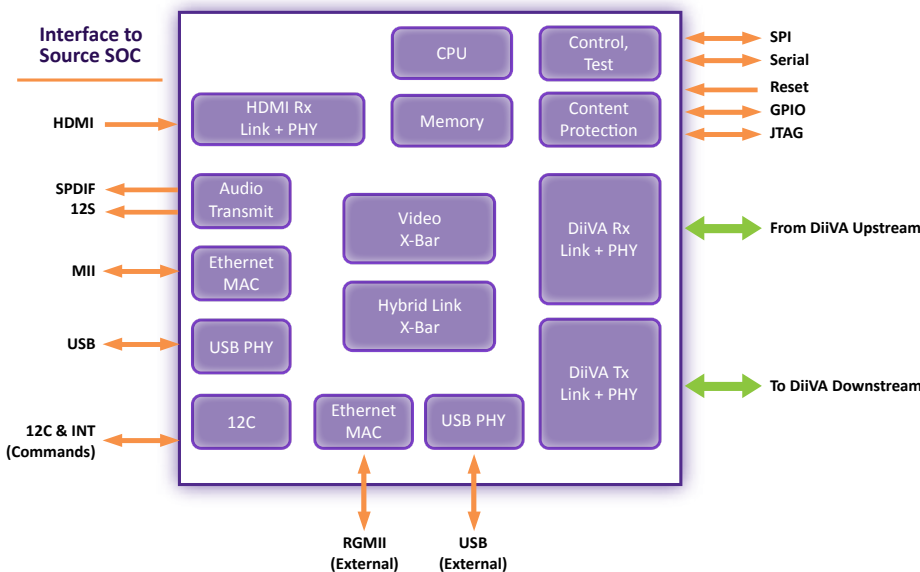
Features

- Compatible with DiIVA 1.1, HDMI 1.4 (3D), USB 2.0 and MII/RMII Specifications
- 1.8V and 3.3V power supply
- 1 DiIVA Transmit (downstream) port and 1 DiIVA Receive (upstream) which supports up to 2.25Gbps for video
- Supports up to 2.25Gbps & 3D modes at HDMI Receiver interface
- Supports Power over DiIVA (PoD)
- Supports S/PDIF and I2S Audio output without Master Clock
- Supports GPIO for general purpose usage
- Supports DiIVA Control Layer for communication with Source SOC
- Supports up to 2 Ethernet ports
- Supports 3 USB upstream (device) port and 1 USB downstream (host) ports
- Embedded I²C interface
- 5V Tolerant I/O for HPD, DDC, USB5V and GPO detection pins
- Available in 144-pin LQFP package (20.0mm x 20.0mm)

Applications

- Set-top Boxes
- Digital Media Adapters
- Blu-ray/DVD Players
- Game Consoles
- External Dongles (DiIVA-to-HDMI Bridges)

DiIVA Daisy Chain Transmitter Block Diagram



DiIVA

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