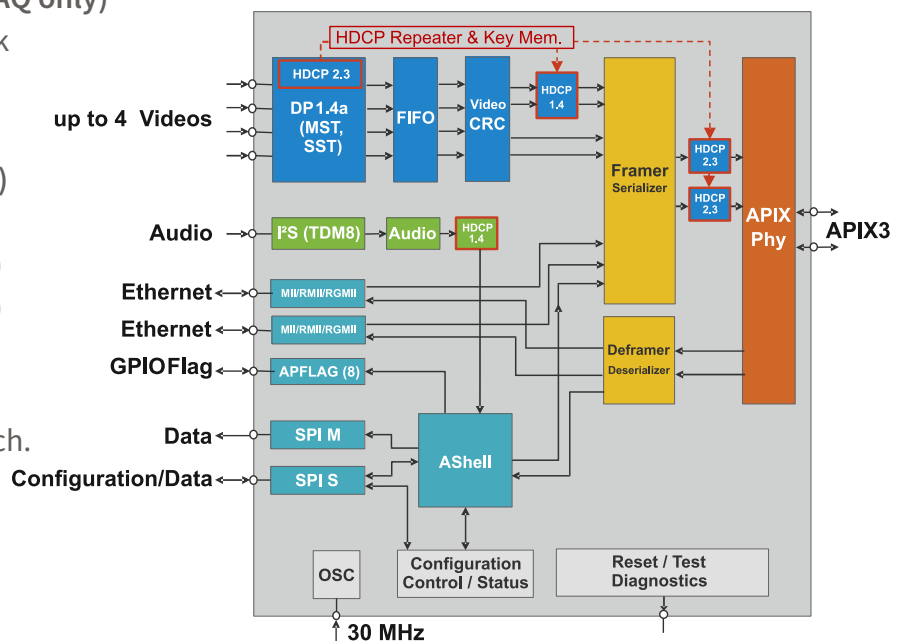


INAP567T, INAP597T

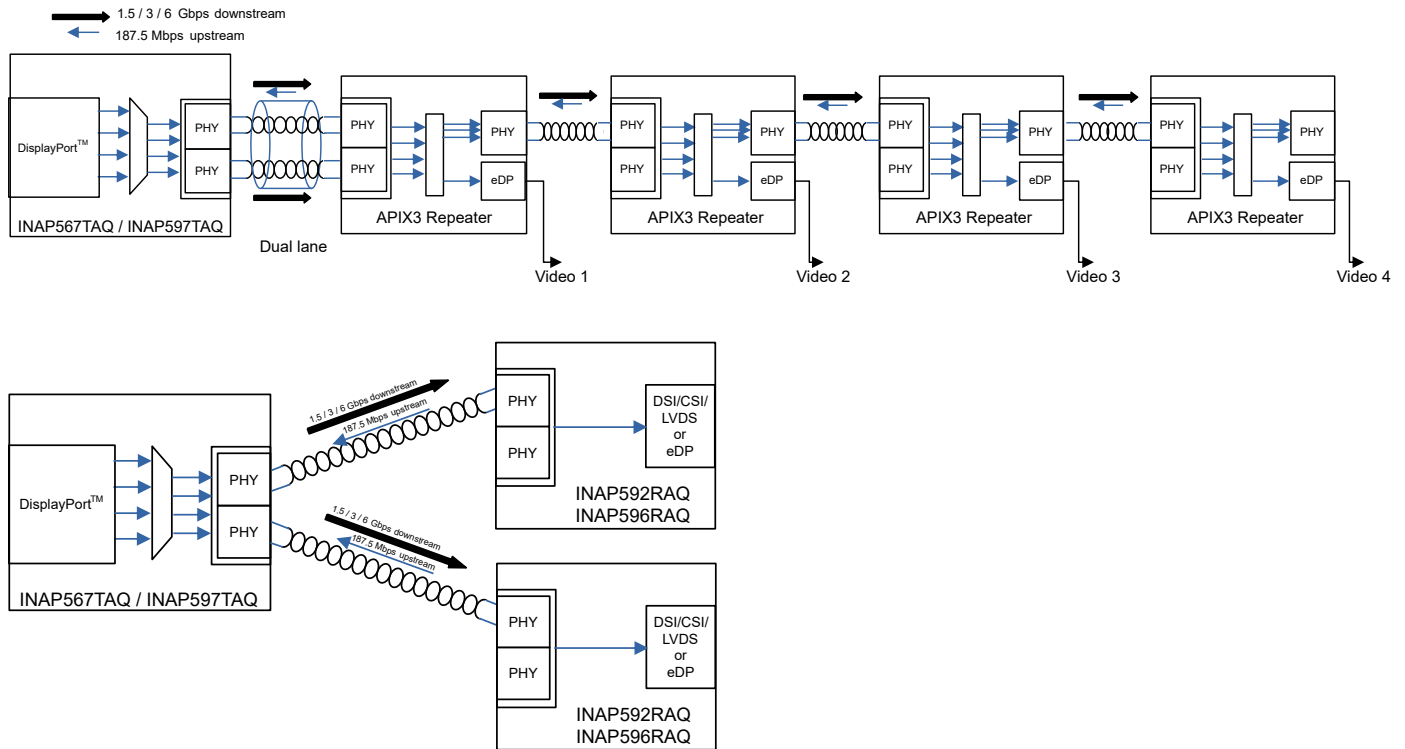
APIX3 Twin Transmitter with DisplayPort™ MST and repeater support

FEATURES

- **Physical Layer**
 - 2 Ports with 6 or 3 Gbps downstream
 - Dual lane support for 6 or 12 Gbps
 - 187.5 Mbps upstream
 - Automatic link training
- **Support for up to 4 video channels with 2 receivers or up to 4 repeater devices**
- **Supports STP or QSTP cables**
- **DisplayPort™ 1.4a interface supporting**
 - 4 lanes HBR/HBR2 (2.7/5.4 Gbps lanes)
 - Multi-stream Transport (MST) - 4 videos
 - Single Stream Transport (SST)
 - up to 360 MHz pixel clock per video
 - RGB only
 - Aux Channel (1 Mbps)
 - HDCP2.3 over DP™ (INAP597TAQ only)
- **HDCP repeater support (INAP597TAQ only)**
 - HDCP2.3 and HDCP1.4 at APIX3 link
 - HDCP1.4 at APIX2 link
- **Support for VESA DSC tunneling**
- **Video resolution examples (typical)**
 - 2x 2880x1080 24bit @60Hz
 - 3840x2160x30 bit @60 Hz (via DSC)
 - 7840x2160x30 bit @60 Hz (via DSC)
 - Video integrity support
- **I²S Audio interface**
 - 192kHz sampling, TDM for up to 8 ch.
- **APIX2 backward compatible**
- **Full-duplex communication channels for Data, Ethernet or GPIO**
 - 2x RGMII/RMII/MII interfaces with 10/100 Mbps support
 - Dual SPI data interfaces for Data Communication
 - Embedded AShell protocol data protection layer
 - 8x GPIO pins, which can be mapped to
 - APFlags and 8 Soft flags per AShell in downstream direction
 - 2 APFlags and 2 Soft flags per receiver/repeater in upstream
- **Diagnostic Features:**
 - PRBS patter generator and checker
 - Continuous link monitoring



APPLICATION OVERVIEW



TEMPERATURE QUALITY

- -40°C to +105°C
- AEC-Q100

DESERIALIZER

- INAP566R, INAP596R
- INAP562R, INAP592R
- INAP375R
- Socionext Indigo 4 Series (APIX3 Repeater)
Indigo 3 Series

APPLICATIONS

- Infotainment Systems
- Head Units
- Instrument Clusters
- Rear-Seat Entertainment Systems
- Multimedia Gateways

Part Number	Package	Pack Size	HDCP
INAP567TAQ-T	151 aQFN	176 / Tray	
INAP567TAQ-R2	151 aQFN	2000 / Reel	
INAP597TAQ-T	151 aQFN	176 / Tray	yes
INAP597TAQ-R2	151 aQFN	2000 / Reel	yes

