# SMPTE 2059-1/2 IP Package

Video transfer over IP, Supports PTP

## Overview

SMPTE 2059 is a standard for synchronization of video equipment over an IP network. The standard is based on IEEE1588.

This IP generates a timing signal standardized in SMPTE2059 using IEEE1588v2 Precision Time Protocol (PTP).

The timing signal is utilized as "GenLock" signal which has been used in conventional A/V system.

## **Features**

- Supports IEEE 1588v2 Master/Slave mode
- Flexible customization combining with FPGA HW
- More tolerant for Network Jitter
- Shorten Lock time

## **Specifications**

- IPv4 Base
- Supports both Master and Slave
- Video/Audio AP output
- 1pps output
- TC output

# **Supported Devices**

- Cyclone V SX
- Arria 10 SX

(\* Please contact Macnica sales department about other devices.)

## **Device Resource Utilization**

• Please contact Macnica sales department.

## **Deliverables**

- Binary SW
- Encrypted RTL (Verilog HDL)
- Reference design
- User's Manual



