Dream CHIP

Targa

Targa is specially designed to enable TV broadcast directly into an LTE network (4G and 4.5G). This allows realtime video transmission into the cloud or into any broadcast studio in the world in real time and with an incredibly low latency of less than one frame in the encoder. Users can watch the content anywhere in the world anytime and with any device (mobile phones, tablets, laptops, PC).

Targa is battery powered with a built-in rechargeable battery. It works without any cables to support easy mounting on humans, animals, vehicles or special sports equipment.

Targa has dedicated functions to be able to work correctly on critical networks like LTE. Targa supports simultaneous dual video streaming: One High-Definition stream for broadcast audience and one Single-Definition stream for preview of e.g. multiple camera views, both H.264 encoded. Targa also streams in parallel the HD or SD stream to the local Flash Drive to allow remote playback if the realtime transmission was broken for whatever reason. So no critical content like a goal will be lost.

Targa supports professional Video Interfaces like HD-SDI as well as HDMI. So any kind of professional camera (e.g. Arri, Sony) and consumer style cameras (e.g. GoPro) can be easily connected.

Targa supports also a wide range of mounting options for professional cameras as well as for direct body and vehicles mounting. As Targa is very lightweight it can be easily mounted to animals like horses, dogs or camels as well as to drones or other remote controlled vehicles.

Targa IP64 is a dedicated solution for water sports. It comes together with a GoPro Hero camera in a single waterproof enclosure and operates without any external power supply for a maximum of two hours. It is targeted for use on sailing ships and motorboats and also for wave boarders and surfers.

Targa CAN is a special solution for cars and trucks. It has an additional CAN interface providing a direct interface to the inbuilt CAN bus of any vehicle. This enables realtime transmission of telemetry data out of the vehicle in parallel to video transmissions.

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Technical Data:

- Voltage Supply:
  Battery powered: 12 V-25 V
  External power supply: 9 V-36 V
  (no battery)
- Power consumption: ~8 W
- Play time with built-in battery: ~2 h
- Weight: 600 g (incl. built-in battery)
- Size: 120 mm x 105 mm x 38 mm
  (L x W x H)

Interfaces:

- HD-SDI Input:
  v1.1: Mini-Coax with BNC adapter
  v2.0: BNC
- HDMI Input (A, Standard)
- HDMI Output (A, Standard)
- Audio Input (3.5mm)
- Audio Output (3.5mm)
- Ethernet 10 / 100
- USB2.0 Host
- microSD Card Slot
- Antenna: SMA (2 x)
- Power Supply:
  v1.1: Mini-XLR + adapter cable
  v2.0: 2pol. DC jack 1

Optional:
- RS485 und RS232
- CAN Bus Interface:
  − Protocol 2.0 part A und B
  − Bitrates up to 1 Mbit/s

Video Protocols:

- 1080i 50 / 59.94 / 60
- 1080p 23.98 / 24 / 25 / 30
- 1080PsF 23.98 / 24 / 25
- 720p 50 / 59.94 / 60

- Compression Algorithm: Baseline, Main
  and High Profile H.264
- Bit Rate: 200 Kbps to 30 Mbps
- Built-in Video Scaler and Deinterlacer

- TDS, RTSP and MPEG-DASH
- Audio Compression: AAC-LC
- Embedded Audio Output

LTE support:

- Easy exchange of LTE stick to support a
  variety of different networks and providers
- Supports 700 MHz, 800 MHz, 900 MHz,
  1.7 GHz, 1.8 GHz, 2.1 GHz and 2.6 GHz
- Supports FDD and TDD