Amethyst
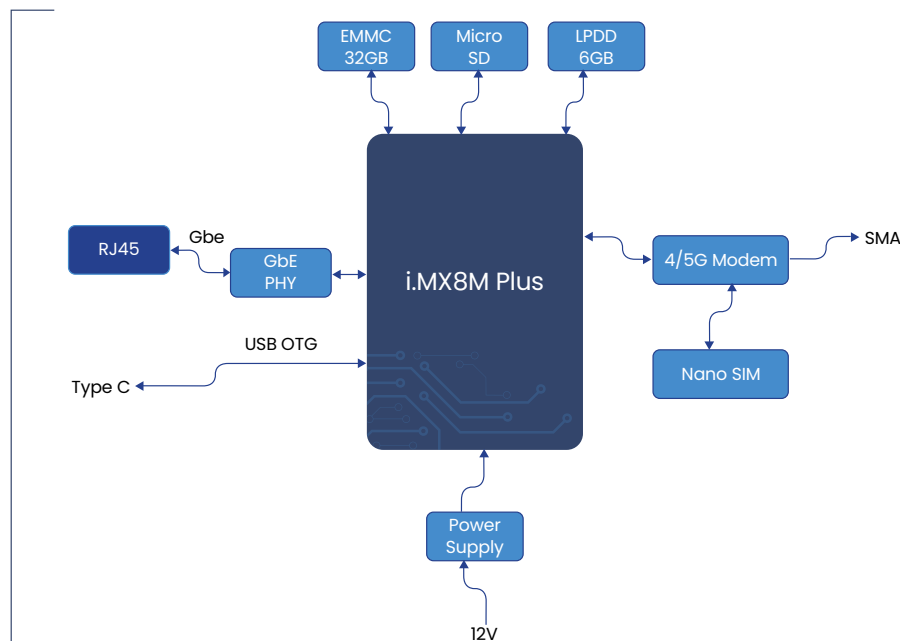
An advanced miniature and low-power H.264/5 multiple-stream recorder and streamer over cellular and Ethernet networks.

Block Diagram

Functionality

- Amethyst features multiple simultaneous functions and streaming capabilities:
  - ▶ Accepts video from IP and from USB cameras
  - ▶ Generates multiple H.264/5 streams from transcoded IP camera input and encoded USB camera input
  - ▶ Records the generated streams on a local onboard EMMC or Micro-SD and streams over cellular or Ethernet networks via server
- Streams pre-recorded files over cellular or Ethernet networks via server
- Controlled via server using Android, iOS, and Windows applications

Specifications

SoC	NXP i.MX8M Plus
Memory	6GB LPDD4 32GB EMMC
Video In	IP camera over GbE USB camera over USB 3.0
Network	GbE (RJ45) 4/5G Cellular Modem with Nano SIM
Storage Media	32GB EMMC Up to 1TB Micro SD
USB	USB-OTG (Type-C)
Dimensions	L 67.26 x W 42.09 x H 30.73 mm
Operating Temperature	-40C to +85C
Power	Power input 5-12V Power consumption ~4W

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