Prism Mobile Backpack: 4K Bonding Encoder Backpack for IP Video

Supercharge your Prism Mobile with the Prism Mobile Backpack, our latest accessory that packs up to 4 additional high-performance Node 5G modems for unbeatable cellular connectivity in the field. That means you can stream over 6 cellular connections simultaneously for the ultimate on-the-go streaming experience.

MODELS

NOTE: The Prism Mobile Backpack is available in V Mount or Gold Mount.

- Prism Mobile Backpack - 2x LTE Node
- Prism Mobile Backpack - 2x 5G Node
- Prism Mobile Backpack - 4x 5G Node

BONDING MODULE

Support for up to 4 additional Node Modems using 5-pin connectors and external power.

SUPPORTED MODEMS

- Node II
- Node II CBRS
- Prism Mobile Backpack - 4x 5G Node

POWER INPUT

Requires external power from standard PTAP adapter, Gold, V-Lock Battery Plates **NOTE: 26V IS NOT SUPPORTED.** Recommended Battery: **Anton Bauer Batteries**

INCLUDED POWER SUPPLY

16.8V 3.0A PTAP power adapter

TERADEK Prism Mobile

Prism Mobile: 4K H.264/HEVC Encoder for IP Video

Prism Mobile is the lightest LTE enabled video encoder on the market. With a flexible I/O and a compact, low-SWaP design, Prism Mobile easily fits into any workflow. Prism Mobile gives you 4K 10-bit HDR video transmission with integrated LTE network bonding for live coverage from any location. Prism Mobile is designed to seamlessly fit onto the back of your ENG or professional camera or placed directly on a table top. Prism Mobile can encode up to 4Kp60 video with stunning 10-bit 4:2:2 image fidelity paired with Stereo or 5.1 surround sound. The Prism platform supports many common streaming protocols such as MPEG-TS, RTSP/RTP, RTMPS, and SRT, and can be connected to Teradek's Core Cloud Platform for even more flexibility.

VIDEO

Video Inputs	**1x** 12G/6G/3G/HD/SD-SDI (75 Ω BNC), **1x** HDMI 2.0 Type-A receptacle
Video Outputs	**1x** 12G/6G/3G/HD/SD-SDI (75 Ω BNC)
Supported Resolutions	**4K DCI** p23.98/24/25/29.97/30/50/59.94/60 **4K UHD** UHD p23.98/24/25/29.97/30/50/59.94/60 **1080p** 23.98/24/25/29.97/30/50/59.94/60 **1080i** 50/59.94/60 **1080PsF** 23/24/25/29/30 **720p** 50/59.94/60 **576i** **480i**

VIDEO PROCESSING

Video Compression/Decompression	**ISO MPEG-4 Part 10:** Advanced Video Coding (AVC)/ITU H.264 **AVC:** Baseline, Main, High **ISO MPEG-H Part 2:** High Efficiency Video Coding (HEVC)/ITU H.265 **HEVC:** Main
Supported Video Bitrate	250 Kbps to 85 Mbps
Video Format Conversion Support	Built in video scaler and deinterlacer
HDR Support	Yes (Rec. 2100)
Color Correction	CDL/1024 1D LUT (supports 10-bit color), 33x33x33 3D LUT (supports 10-bit color)
Bonding	**Support for up to 9 network inputs:** **4x** Cellular phones **2x** Internal Node modems **1x** External modem **2x** Ethernet networks
Recording	**Supported File Type** - MP4, TS wrapper **Supported Media** - SD Card, USB, NFS

TERADEK

PROTOCOL SUPPORT

Network Protocols	TCP/IP, UDP, HTTP, DHCP, NTP, SSL, IGMP
Supported Video Transport Protocols	Secure Reliable Transport (SRT), RTMP/RTMPS, MPEG-TS (UDP, TCP, TCP Server, Multicast), CDNs (YouTube, Facebook, Vimeo), RTSP/RTP
Remote Management	Teradek Core

AUDIO

Audio Support	Stereo, 5.1 surround sound
Audio Compression	AAC-LC
Audio Bitrate	32kbps to 512kbps
Audio Sample Rate	48kHz
Audio Input	Embedded over SDI and HDMI, 3.5mm TRRS Stereo Line Level Analog or Microphone in, adjustable gain
Audio Output	3.5mm TRRS Stereo Headphone output, adjustable gain

PHYSICAL ATTRIBUTES

Dimensions	5.9"W x 3.9"D x 1.3"H [162 x 92 x 35mm]
Weight	23.4oz [664g] without plates; 30.5oz (864g) with plates
Construction	Milled aluminum
Mounting Options	Camera-back, Gold, Gold 26V and V-Lock mounts, Can be mounted using the 1/4" 20 mounting holes

INTERFACES

Configuration Interface	• Feature-rich Web UI for local device management, configuration, and control • Intuitive iOS configuration app (Prism App) • OLED Status Display w/ Nav control buttons • Core for cloud-based device management
Cellular	**2x** Internal Node II 4G LTE modems (Verizon Certified - Global Use) with dual switchable SIM slots, Supports Teradek Data and up to 4 cellular SIM cards
USB Interface Functionality	**1x** Powered locking connector with **Node Modem** support **1x** Powered USB-A with external storage support
Ethernet	**2x** 10/100/1000 BASE-T Gigabit Ethernet (RJ45)
Wireless	**WiFi:** 2.4/5GHz 802.11 a/b/g/n/ac/ax MiMo

POWER

Power Input	2-pin circular locking connector, Gold, Gold 26V and V-Lock Battery Plates
Voltage	6-28V DC
Nominal Power Consumption	20W Nominal, 36W Max