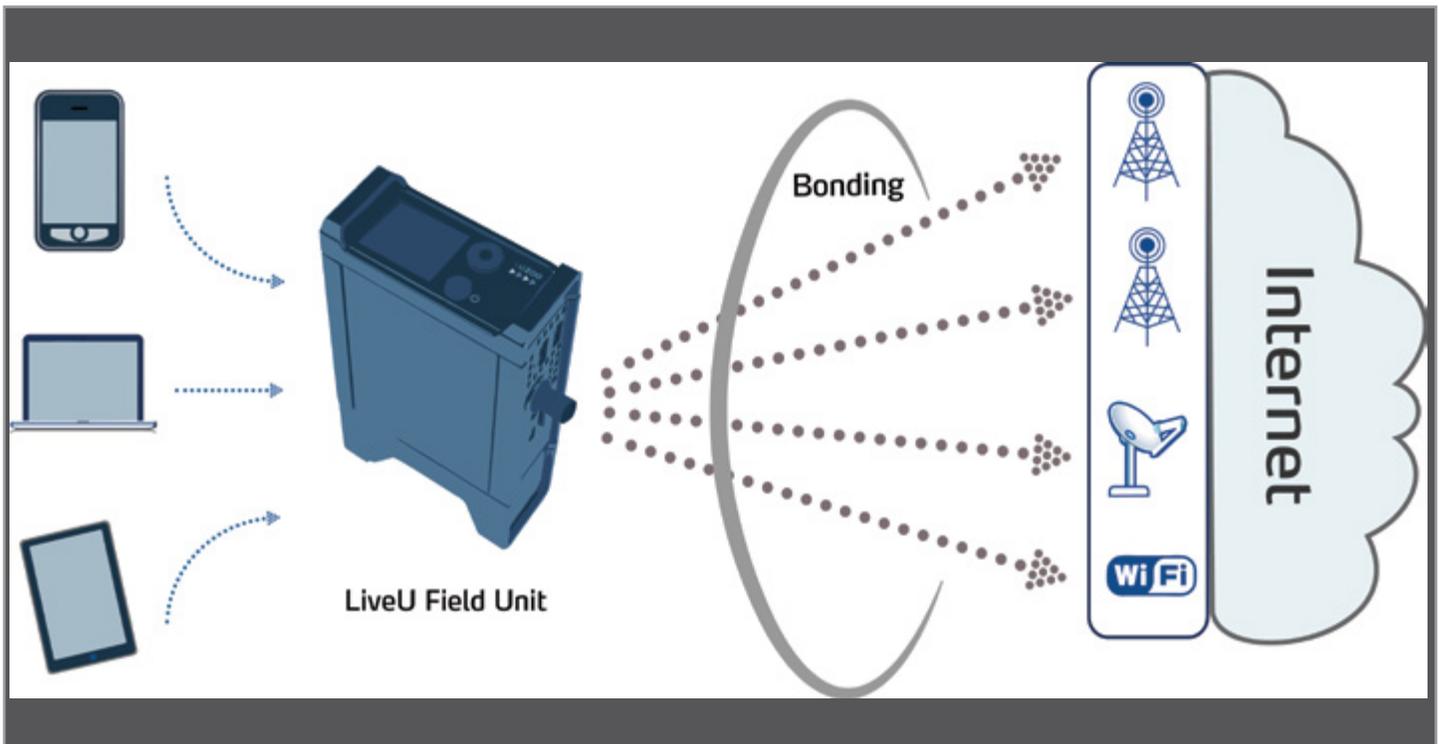


## LiveU DataBridge

Bonded Wireless / Broadband for Data-on-the-Go



LiveU's DataBridge is a powerful mobile hotspot that offers resilient mobile broadband connectivity for multiple devices in any location, by bonding together existing multiple cellular and other data connections.

The DataBridge is available as a software upgrade to your existing LiveU video uplink device (LU200, LU400, LU500, or LiveU Xtender), or as a standalone bonded hotspot device.

Once activated, the DataBridge boosts connectivity and productivity by simultaneously bonding multiple commercially available networks, including cellular (2G, 2.5G, 3G, 4G/LTE), WiFi, SATCOM, DSL and cable to provide a high-capacity, resilient Internet link.

The DataBridge can be utilized for any type of Internet usage in the field, including web browsing, file upload and download, media streaming, email, and much more, through any paired device such as laptop computers, phones, and tablets.

## Advantages

- Broadband pipe for both uploads and downloads, using multiple wireless networks
- Highest bandwidth everywhere, in both directions
- Highest possible service availability from anywhere
- Full mobility
- Turnkey solution
- Seamless bonded broadband for any data type

The screenshot shows the LiveU mobile application interface. At the top, it displays the LiveU logo and 'Gateway: Primary'. Below this is a table showing network status and data usage for various connections. The table has columns for network type, download speed (↓ kbps), and upload speed (↑ kbps). A 'Disconnect' button is visible on the right. At the bottom right, there are icons for settings, a pencil, information, and power.

Network	↓ kbps	↑ kbps	Status
1	822	121	Green
2			Red
3			Yellow
4	629	336	Green
Sat	512	512	Green
Eth	2747	1482	Green

Transmission / Reception	LiveU DataBridge bonded transmitter & receiver (bi-directional bonding)	Transmits IP traffic split over its multiple connections. Receives any IP traffic split over its multiple connections
Receiver	Transparent LU-GATEWAY bonded receiver (cloud-hosted software)	Alternative configuration for on-premise: 1U rack-mount standard Intel computer w/two NIC cards. A single LU-Gateway can support multiple DataBridge units simultaneously
Protocols Supported	Any IP transmission	Examples of common higher layers: UDP, TCP, HTTP, and any higher level protocols
Unit-to-unit	Uses star architecture with inter-unit communication via gateway	All field units connected to the same LU-Gateway can communicate with each other
Data Security	Layer 2 VPN: L2VPN or VPLS External proprietary data encoders/decoders supported	
Hardware Interfaces	Data in/out: Ethernet RJ45 or optional: Fiber Optic standard 100BaseFX SFP	
Supported Networks	Cellular (any band) 4G LTE, 3G, 2.5G, WiFi, xDSL, cable modem, LAN, Wimax, SATCOM	
Network Interfaces	From 2 cellular modems inside (LU200), through 10 (LU500), any network / operator	WiFi, SATCOM, DSL, Cable supported with external modem/hub via the second RJ45 connector
RF	Antenna Arrays	Benefits in resiliency, coverage, operation in areas of poor coverage, on-the-drive, and even in crowded areas. Enhanced support for all common wireless frequencies including LTE
Power	Own battery Vehicle power operation: 12VDC-22VDC	Standard: ~2 hrs transmission Double: ~4 hrs transmission (depending on field conditions)
End-to-end latency	Typically 0.1 sec additional to networks latency	From input to output Depends on number of SIMs, networks performance, mobility and temporary conditions
Vehicle installation	Standard	Can be installed anywhere in the vehicle. Requires air-conditioning when transmitting
Temporary installation	Standard	Indoors
Local operation	Full, simple: one button to operation, almost zero configuration	User can manually operate/modify DataBridge operational parameters
Gateway redundancy and fail-over	Dual LU-Gateways automatic fail-over	Field units can automatically connect to secondary LU-Gateways if prime connection failure
Peripherals	Additional batteries, chargers, vehicle adaptors available	
Service and support	Full service and support are available	24x7x365 support packages available Local SIM and data packages available

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**For more information:**

LiveU - WorldWideLiveU Inc.

USA: +1 801 7900348

Switzerland: +41 44 5853000

e-mail: [info@liveu.ws](mailto:info@liveu.ws)

web: [www.liveu.ws](http://www.liveu.ws)

