



Technical Datasheet

UPTIVO BRIDGE

UPTIVO BRIDGE

High-Performance Fitness Gateway & Telemetry Hub

PRODUCT OVERVIEW

The Uptivo Bridge is a compact gateway designed to connect compatible wearable devices and fitness equipment to the Uptivo ecosystem.

It receives data from ANT+ and Bluetooth® Low Energy wearable devices, as well as compatible fitness equipment, and transmits the collected data to the Uptivo Cloud through Ethernet or Wi-Fi connectivity.

When multiple Uptivo Bridges are installed within the same facility, they form a local mesh network over Ethernet or Wi-Fi. The mesh

enables seamless handover of wearable devices between Bridges: as users move through the facility, their wearables are automatically picked up by the nearest Bridge, ensuring optimal signal reception and uninterrupted data collection across large or multi-room training areas.

The Uptivo Bridge provides two independent HDMI outputs that

can simultaneously display live telemetry and workout content, including exercise videos and timers. Live telemetry supports multiple pages per screen, with up to 50 users displayed per page.

Each Bridge can also be configured as an individual station within a circuit training setup, displaying dedicated exercise videos and timers for each station.



KEY FEATURES

- Supports ANT+ wearable devices
- Supports Bluetooth® Low Energy wearable devices
- Supports compatible fitness equipment
- Supports up to four external ANT+ USB receivers for extended wireless coverage
- Ethernet and Wi-Fi connectivity
- Local mesh networking between Uptivo Bridges
- Dual HDMI outputs
- Live telemetry display
- Workout display with exercise videos (up to 12 videos per Bridge)
- Circuit training station mode
- Compact fanless hardware platform
- Designed for continuous operation

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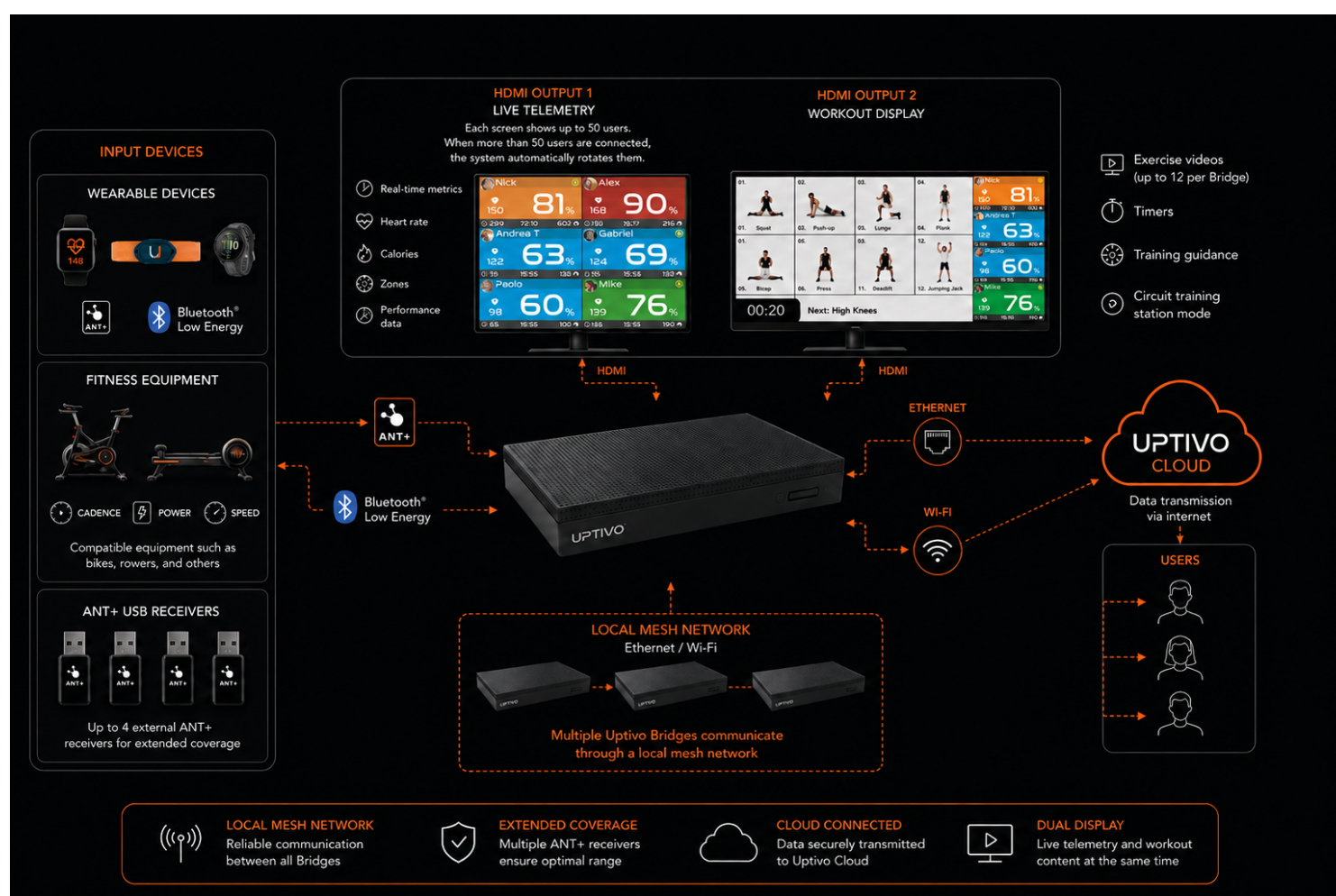
SYSTEM
ARCHITECTURE

Component	Description & Function
Input Devices	Compatible devices include: • ANT+ wearable devices • Bluetooth® Low Energy wearable devices • Compatible fitness equipment (such as indoor bikes and rowing machines) Compatible fitness equipment can provide additional training metrics such as cadence, power and speed.
Uptivo Bridge	Receives data from connected wearable devices and compatible fitness equipment. When multiple Bridges are installed, they communicate through a local mesh network over Ethernet or Wi-Fi.
Uptivo Cloud	Receives data transmitted by the Uptivo Bridge.
HDMI Output 1	Displays live telemetry.
HDMI Output 2	Displays workout content, including exercise videos and timers.

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SYSTEM ARCHITECTURE



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CONNECTIVITY

Supported Devices

The Uptivo Bridge supports:

- ANT+ wearable devices
- Bluetooth® Low Energy wearable devices
- Compatible fitness equipment

The system also supports up to four external ANT+ USB receivers for extended wireless coverage.

Network Connectivity

- Gigabit Ethernet
- Dual-band Wi-Fi

Reliable local communication between multiple Uptivo Bridges is provided through mesh networking.

Video Outputs

The Uptivo Bridge features two HDMI outputs.

HDMI Output 1

Displays live telemetry.

HDMI Output 2

Displays workout content, including exercise videos and timers.

Both outputs can operate simultaneously.

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TECHNICAL SPECIFICATIONS

Hardware

Specification	Description
Processor	Intel® Celeron® J4125 Quad-Core
CPU Frequency	2.0 GHz (up to 2.7 GHz)
Graphics	Intel® UHD Graphics 600
Memory	4 GB LPDDR4
Storage	64 GB eMMC
Storage Expansion	Micro SD Card Slot

Connectivity

Specification	Description
Ethernet	Gigabit Ethernet (10/100/1000 Mbps)
Wireless	Dual-band Wi-Fi (802.11ac)
Bluetooth	Bluetooth® 4.2
ANT+	Supports up to 4 external ANT+ USB receivers

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Interfaces

Specification	Description
HDMI	2 × HDMI 2.0
Maximum Resolution	Up to 3840 × 2160 @ 60 Hz
USB	4 × USB 3.0 (for external ANT+ receivers)
Audio	3.5 mm Audio Combo Jack

Mechanical

Specification	Description
Cooling	Passive Fanless Cooling
Dimensions	131 × 81 × 18.3 mm
Weight	203 g

Power

Specification	Description
Input Voltage	AC 100–240 V, 50/60 Hz
Power Supply	DC 12 V 2 A
Maximum Power Supply Rating	24 W

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OPERATING SYSTEM

Custom Linux-based OS

COMPLIANCE

The Uptivo Bridge is based on a hardware platform compliant with applicable CE and FCC requirements.

Compliance documentation is available for the hardware platform.

CERTIFICATIONS

- CE
- FCC

DIMENSIONS



Uptivo Bridge

0.19 L

203 g



Mesh
Network



Dual HDMI
2x



Cloud Connected



Fanless