

Discus™ DEX W50N Video Extender



The DEXW50N Video Extender is a High-End Wireless solution designed to deliver High Definition Video Streaming throughout the Home Network

- **IEEE 802.11n @ 5 GHz**
- **Multicast and Unicast HDTV Streaming**
- **Support of Multiple HDTV streams**
- **LDPC Forward Error Correction coding**
- **MAC packet aggregation technique**
- **Maximum-Likelihood MIMO Detector**
- **Remote Management**

As a supplier of Home Gateways, Set Top Boxes and Remote Management Systems, Pirelli has a full understanding of the service integration challenges related to IPTV services and has developed a portfolio of solutions for the IPTV service automation, allowing zero-touch configuration, no new wires set up, remote manageability and self-care. Pirelli's Extenders work as high performance, external dongles, able to link the Home Gateway to the Set Top Boxes placed in the desired positions in the house, avoiding un-esthetical new cabling, wiring works, and technical on-site support. Wi-Fi off-the-shelf technologies have long been considered the most appealing option, but still fail to-date, in their standard implementations, to delivery High Definition unicast and multicast video streaming with stability and robustness.

The DEXW50N leverages on unique performance enhancements developed by Pirelli's R&D on the standards based IEEE 802.11n protocol, bringing for the first time the level of performance and resilience required to support multiple High Definition streams in a residential environment. The DEX W50N offers extremely high throughput and signal robustness to support multiple HD video streams thanks to an enhanced implementation of the IEEE 802.11n protocol which comprises a Maximum-Likelihood MIMO Detector technique, a MAC aggregation mechanism, the use of LDPC in addition to convolutional FEC.

Discus™ DEX W50N



LEDs

- 1x Power
- 1x Wi-Fi Link,
- 1x Ethernet Link
- 1x Service

Buttons

- N°1 Reset Button
- N°1 WPS Button
- N°1 Power Button

Power Adapter

INPUT: 100-240 VAC 50/60Hz 0.5A
OUTPUT: 12VAC 1.5A

Environmental Specifications

- Temperature:
- Operating: 0 to 40 °C
 - Non Operating: -20 to 65 °C
- Relative Humidity:
- Operating: 10% to 85% non-condensing
 - Non Operating: 5% to 95% non-condensing

Agency Approvals and Certifications

- CE mark
- Wi-Fi certification (by Wi-Fi alliance)
- RoHS
- WEEE

Physical Specifications

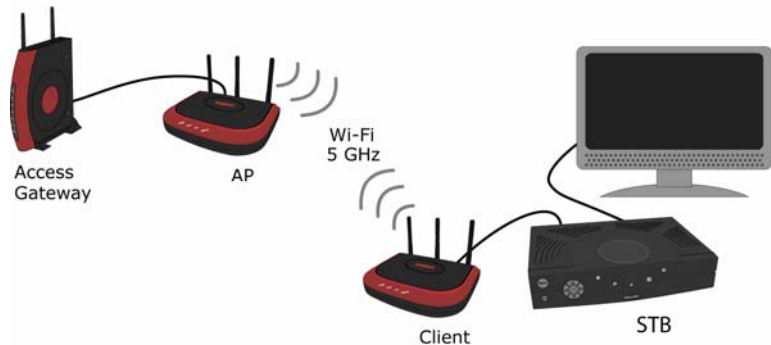
290mm(W) * 176mm(D) * 60mm(H)
Weight: 733g

Standard Package Content

- N°1 DEXW50N Device (AP or Client)
- N°1 Ethernet Cable
- N°1 Power Adapter
- N°1 Quick Installation Guide (Hard Copy)

MAIN FEATURES

Performance	80 Mbps Video Streaming Throughput at UDP/TCP level
LAN interface	N° 1 10/100BASE-T Ethernet port (RJ-45 plug), compliant IEEE 802.3, with auto MDIX
Wireless Interface	IEEE 802.11 n (5GHz) Compliant with: IEEE 802.11a (5 GHz)
Miscellaneous	QoS: WMM (IEEE 802.11e) Security: WPA/WPA2 (IEEE 802.11i) N°3 external Antennas (2x3 MIMO Technology) DFS and TPC compliant with IEEE 802.11h
Configuration & Management	Wi-Fi Protected Setup TR-069 remote control through Access Gateway Performance Monitoring
Video Advanced features	Maximum Likelihood MIMO detector Enhanced FEC (LDPC) coding MAC Packet Aggregation DLS (Direct Link Setup)



The DEX Extender families can seamlessly integrate within Pirelli's technology bundle for quadruple play services, which comprises:

- Pirelli's Multiplay Access Gateways, serving as multi-service routers with advanced MIMO WLAN capabilities specifically enhanced for VoIP and videostreaming applications over Wi-Fi.
- Pirelli's H.264 HDTV Set Top Boxes
- Pirelli's Remote Management Platform (PMP), which includes ACS capabilities for TR-069 compliant IPTV Set Top Boxes and Home Gateways.

(*): optional on request