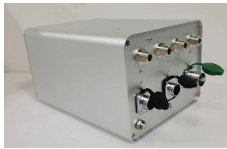**LEAGRID**™

Product Model	**LGS2000-F-BS-01**

Product Image

Product Overview

LGS2000-F-BS-01 is independently developed by Beijing Leagrid Technology Co., Ltd. and supports ≥20MHz air port bandwidth. Support 5150M-5850MHz band adjustable, can be used for regional wireless communication network construction, for wireless transmission in the coverage area. Dual-stream service provides high bandwidth and low latency wireless transmission service with perfect service support capability, high reliability, high security, easy network deployment, automatic on-line and configuration, etc. High reliable protection level, easy to set up LAN for indoor and outdoor occasions.

Technical Specification

Wireless protocol: Private protocol
Wireless frequency band: 5725M-5850MHz
Channel bandwidth: 20Mhz/40Mhz/80Mhz
Transmit power: ≤33db
Transmission delay: less than 20ms
Uplink bandwidth: 1Gbps
Downlink bandwidth: 1Gbps

Transmit power.
  20Mhz bandwidth:MCS7 23±2DB, MCS0 26±2DB.
  40Mhz bandwidth: MCS7 23±2DB, MCS0 26±2DB.
  80Mhz bandwidth: MCS9 21±2DB, MCS0 24±2DB.
Acceptance sensitivity.
  20Mhz bandwidth: -70dbm@MCS7, -90dbm@MCS0 .
  40Mhz bandwidth: -66dbm@MCS7, -90dbm@MCS0 .
  80Mhz bandwidth: -60dbm@MCS9, -86dbm@MCS0 .
EVM: ≤ -28 DB
Frequency bias (ppm): ±20ppm

Transmission mode: conventional mode & low latency high bandwidth mode
Roaming delay: <100ms
Auto-online: automatic connection when device is powered on, no need to set
Easy to deploy.
Long transmission distance, wide coverage, 1-to-many capability can reach more than 20 video channels

Management Software
Zero Touch configure, automatic device go-live
Automatic and intelligent RF performance optimization for various application scenarios
Support manual adjustment and configuration of RF parameters for various application scenarios
  Support to specify any antenna (1~4) to send and receive data
  Support setting the available channel list for automatic channel selection algorithm
  Support to modify the minimum channel emphasis threshold for allowing client access
  Can set the sending rate of multicast service
  RTS/CTS protection policy during data transmission
  Data rate MCS0~MCS11
  Support to enable or disable LDPC
  Support to enable or disable STBC
  Support to enable or disable OFDMA
  Support to enable or disable Multi-User MIMO
  Support to modify the maximum length of MPDU and MSDU service aggregation (32,64,128,256)
Management and maintenance
  View the number of connected terminals, link status, and the working status of the system
  Firmware remote upgrade

Security
CPEID hiding
Wireless encryption
Two-factor access authentication (password + security chip)

External antenna
Type: 1: Directional flat antenna
      2: Omni-directional fiberglass antenna
Gain: 11dB±1db

Interface
(1) 1 ground screw
(2) 1 air permeation hole
(3) 1 SFP Gigabit optical port
(4) 1 RJ45 Gigabit electrical port
(5) Power connector
(6) 4 5.8G antenna interface

Environmental conditions
Operating temperature: -40 to 85°C
Storage temperature: -40 to 85°C
Ambient relative humidity: 5 to 95% (non-condensing)

Product Dimensions
223mm(L) X 133mm(W) X 316mm(H)
Weight
3.1kg

Industry Standards
Electromagnetic Interference.
FCC CFR47 Part 15, EN55022/CISPR22, Class A
EMS.
IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)
IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)
IEC61000-4-4 (EFT): Power port: ±4kV; Data port: ±2kV
IEC61000-4-5 (Surge). Power port: ±2kV/DM, ±4kV/CM; Data port: ±2kV
IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)
IEC61000-4-16 (Common mode conduction). 30V (continuous), 300V (1s)

Mechanical Standards
IEC60068-2-6 (Vibration)
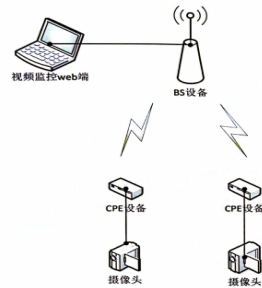IEC60068-2-27 (Shock)
IEC60068-2-32 (Free fall)

Warranty
3 years

Power supply
100-240vac 0.5a
Full load power consumption
<30W

Topology diagram

Machanical Drawing