

Product Model LGS2000-F-5G-CPE-01

Product Image



Product Overview

LGS2000-F-5G-CPE-01 is self-developed by Beijing Leagrid Technology Co., Ltd. and supports ≥20MHz air port bandwidth. It supports adjustable 5725M-5850MHz frequency band and can be used in 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, simple 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

Management Software
 Zero Touch configure, automatic device go-live
 Automatic and intelligent RF performance optimization for various application scenarios
 Support for manual configuration of RF parameters for various application scenarios
 Support for setting the available channel list for automatic channel selection algorithm
 Set the transmission rate of multicast services
 RTS/CTS protection policy during data transmission
 Data rate MCS0-MCS11
 Support to turn LDPC on or off
 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
 Firmware remote upgrade

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

External antenna
 Type optional:
 1: Directional flat antenna, 6dB±1db
 2: Omni-directional glue stick antenna, 6dB±1db
Interface
 (1) Ground screw
 (2) 2 RJ45 Gigabit electrical ports
 (3) DC power connector
 (4) 5.8G antenna interface

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)

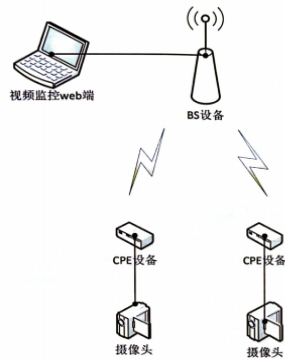
Mechanical Standards
 IEC60068-2-6 (Vibration)
 IEC60068-2-27 (Shock)
 IEC60068-2-32 (Free fall)

Warranty
 3 years
Environmental conditions
 Operating temperature: -40 to 85°C
 Storage temperature: -45 to 85°C
 Ambient relative humidity: 5 to 95% (non-condensing)

Product Dimensions
 95mm(L) X 90mm(W) X 31mm(H)

Weight
 0.35kg
Power supply
 Battery pack: DC12V1A
 Full-load power consumption <5W

Topology diagram



Mechanical Drawing

