DB6000FR-ACS

5.8GHz 866M Industrial-class Wireless Client

Doublecom DB6000FR-ACS is a standard high-performance, high-bandwidth, multi-functional industrial wireless terminal that supports the 802.11ac standard. Based on MIMO (multi-in and multi-out) technology, the RF uses the 2T2R architecture and supports 20/40/80 MHz wireless width and 866Mbps physical layer bandwidth. The device has a maximum transmission power of 1000mw and a reception sensitivity of -96dBm. By external 2 * SMA RF interface, the equipment can match various types of antennas through different rotor lines according to needs, and the effective transmission distance can reach more than 2km with the high-gain antenna.

Doublecom DB6000FR-ACS wireless equipment uses Fast Roaming technology to realize seamless roaming switch in the movement process (switching delay within 50ms). In view of industrial 4.0, logistics warehousing, intelligent manufacturing, intelligent robot and other industry characteristics, the equipment can realize the rapid deployment of a high-speed stable, seamless roaming, safe and reliable wireless communication network, so as to improve the ability of enterprise automation and management operation. Moreover, it can meet the needs of AGV car, UAV, sorting machine control, remote control of various intelligent robots, on-board and ship video

transmission and other industrial applications.

Doublecom DB6000FR-ACS wireless equipment has a CPU main frequency of 680Mhz and 64MB memory. The equipment fully adopts dual power supply, voltage/temperature sensing, radio frequency shielding, electromagnetic shielding and other advanced industrial wireless base station design concept. With high anti-interference ability and excellent protection performance, the equipment can work in -40~75℃ and complete the uninterrupted all-weather operation in the complex electromagnetic environment and harsh climate.

Detailed parameters

Model	Doublecom DB6000FR-ACS	
Wireless Standard	802.11a/n/ac	
Frequency Range	4920～6100MHz	
Maximum Transmission Bandwidth	866Mbps	
Maximum Output	1000mW	
Work Pattern	PTP, Client	
Polarization Mode	2X 2 MIMO, with double polarization	

Sensitivity					
Transmission Speed	6Mbps	54Mbps	6.5Mbps	300Mbps	866Mbps
Receive Sensitivity (dBm)	-96	-80	-96	-74	-72

Rate & Protocol	
Automatic Rate Selection	IEEE802.11a: 6/9/12/18/24/36/48/54Mbps IEEE802.11n: HT20 6.5/13/19.5/26/39/52/58.5/65/78/104/117/130/150Mbps HT40 13.5/27/40.5/54/81/108/121.5/135/162/216/243/270/300Mbps IEEE802.11ac: HT80

		65/130/195/260/390/520/585/650/780/866Mbps(MCS0~MCS9)
Support Standards		IEEE 802.11a/n/ac/h/d, IEEE802.3d/u/ab
Support Agreement		TDMA, FAP, CSMA / CA, TCP / IP, IPX / SPX, NetBEUI, PPPOE, etc.
Management		
Management Style		Support Chinese / English , WEB or Telnet management; unified management on local or cloud management platform / small program management; configuration without restart
Management Agreement		SNMP V1 / V2c / V3, Private API, SSH
Reset	Hardware	Support
	Software	support
Function		
Network Function		Support Vlan, DHCP, NAT, firewall, virtual network bridge, packet analysis and filtering, traffic accurate control (QoS), etc.
Network Tools		Support PTP throughput test, interface packet grabbing function (source address, destination address, port number, protocol number, message size, header content preview analysis function); Ping, traceroute routing tracking, watchdog, etc
Signal Indicator Light		Level 8 LED lamp display
Real-time Data Flow Display		Support real-time display of each client throughput
Temperature & Voltage Sensor		Support
Safety		
Login Control		Support login account encryption, account permission management, authorized user management and debugging
MAC Address Control		Support two-way MAC binding
Wireless Encryption		Support for 40 / 104bit WEP; WPA / WPA2 PSK EAP encryption; private protocol encryption
Certification		Support 802.1x and Radius
Hardware		
CPU		680MHz
Internal Storage		64MB
Interface		
Network Interface	Number	1
	Spec.	10/100/1000BASE-T
Radio	Number	2

Frequency RF Type	SMA-K
Power Supply	
DC	2P terminal 12~24V/1.5A or above
POE	Network port 12~24V/1.5A or above
Environmental & Physical Properties	
Working Temperature	-40～75℃
Storage Temperature	-45～80℃
Humidity (non-condensation)	≤95% (Non-condensation)
Size	No bracket / length * width * height (115mm * 115mm * 40mm) With bracket / length * width * height (139mm * 115mm * 42mm)
Equipment List	Equipment host * 1, installation bracket * 2, qualification certificate * 1
Weight	About 476g
Maximum Power Consumption	≤9W
Special Design	Seismic and heat dissipation design, two standard installation brackets, guide rail installation

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different
    from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.