

ACCESS360

ConnectBridge™ Network Controller
& Wireless Gateway



Product Features

Used for connecting CTC Connect compatible products to the data analysis software of your choice via Ethernet (requires an internet connection).

Receives data from CTC Connect devices and facilitates bi-directional transfer of data within the LAN.

10 sensor inputs* – Mix and match ConnectSens™ WS100, WS200 and WS300 sensors.

Supports WebSocket, MQTT IoT, and Modbus protocols.

Compatible with any existing CTC ecosystem using ACCESS2000 ConnectBridge™ Gateways.

For remote gateway management and data backhaul to an offsite aggregator, an internet connection is required. Recommended solutions are Teltonika RUTM20 for cellular connectivity and Starlink for satellite connectivity



Stock Product

The ethernet cable backshell for ACCESS360 is built to accommodate an industry standard RJ45 Ethernet connector.
Any strain relief on the connector cannot exceed a width of 7/16 in. (11.1 mm).

Component Specifications

Input	Bluetooth® signals from CTC ConnectSens™ wireless sensors
Output	Gigabit ethernet with IEEE 802.3af PoE
Wireless Communication	Bluetooth® Low Energy 5.2
ISED ID	21201-ACCESS360
FCC ID	2BKLG-ACCESS360
Storage	4 GB dedicated, with pre-installed 32 GB SD card (removable and expandable)
Material	Polycarbonate
Compatible Sensor	Any CTC Connect devices, and compatible sensors related to them
Power	48 VDC PoE Injection (IEEE 802.3af or above)
Power Consumption	1 W
Minimum Supply Voltage	40 V
Input Count	Unlimited*
IP Rating	IP67
Temperature Range	-4 °F to 158 °F (-20 °C to 70 °C)

*The access point can accept up to 10 concurrent connections. Using more than 10 connectable sensors is allowable, but may lead to increased data acquisition time.

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Available Data Analysis

Available for ConnectSens™ WS200 and WS300 dynamic capture sensors

Peak Calculations

RMS Calculations

Peak-to-Peak Calculations

FFT Calculations**

Overall Amplitude Trends

Temperature Trends

**FFT properties are dependent on sensor configuration. FFT calculations cannot be configured

Calculated FFT Properties:

Sensor Configuration			Resulting FFT Properties		
Sampling Frequency	Number of Samples	Total Reading Duration (s)	Fmax	Lines of Resolution	Frequency Resolution
400 Hz (24000 CPM)	1600	4	200 Hz (12000 CPM)	800	0.25
	3200	8		1600	0.125
800 Hz (48000 CPM)	1600	2	400 Hz (24000 CPM)	800	0.5
	3200	4		1600	0.25
	6400	8		3200	0.125
1600 Hz (96000 CPM)	1600	1	800 Hz (48000 CPM)	800	1
	3200	2		1600	0.5
	6400	4		3200	0.25
	12800	8		6400	0.125
3200 Hz (192000 CPM)	1600	0.5	1600 Hz (96000 CPM)	800	2
	3200	1		1600	1
	6400	2		3200	0.5
	12800	4		6400	0.25
	25600	8		12800	0.125
6400 Hz (384000 CPM)	1600	0.25	3200 Hz (192000 CPM)	800	4
	3200	0.5		1600	2
	6400	1		3200	1
	12800	2		6400	0.5
	25600	4		12800	0.25
12800 Hz (768000 CPM)	51200	8		25600	0.125
	3200	0.25	6400 Hz (384000 CPM)	1600	4
	6400	0.5		3200	2
	12800	1		6400	1
	25600	2		12800	0.5
	51200	4		25600	0.25
25600 Hz (1536000 CPM)	64000	5		32000	0.2
	6400	0.25	12800 Hz* (768000 CPM)*	3200	4
	12800	0.5		6400	2
	25600	1		12800	1
	51200	2		25600	0.5
	64000	2.5		32000	0.4

*Fmax exceeds mechanical sensor resonance

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TRADITIONAL CORPORATE WIRED NETWORK TOPOLOGY

