BACS[™]Quattro

You Are The Key.

100% Touchless Multi-Biometric Access Control Reader









BACS™ Quattro combines face, iris, palm vein, and fingerprint authentication into a single integrated unit. This powerful multi-modal biometric access control system enables customers to heighten security when identity verification is critical.

Quattro frees you of the daily nuisances of lost keys and forgotten passcodes. You have the option to use any combination of the four authentication methods to suit your operating environment. Quattro's multi-modal biometrics solution isn't just flexible, it also features an intuitive design which reduces user error and gets you on your way.

The 100% touchless system keeps the product clean and hygienic, while the up-to-date authentication technology allows for fast and seamless recognition.

Quattro's 3-Step matching algorithm ensures both reliability and speed while the motion tracking function intelligently recognizes an on-coming object and authenticates it within 0.05 seconds. Quattro has various communication capabilities which can be used both stand-alone and system-linked, and the Plug-N-Play interface enables easy integration with existing security systems and devices.

Be the power to protect your organization with BACS™ Quattro.



- · Multi-biometric authentication Face, Iris, Palm Vein & Fingerprint
- · AES 256 data encryption function
- · Remote data management, firmware update and access control management via CruAMS (CrucialTrak Access Management System)

I Performance I

- · High-speed data processing
- · Sound and LED indicator support
- · Customization for specific environment
- · Logging for up to 1,000,000 events

I Compatibility I

- · Simple integration with an array of systems via various interfaces (Wiegand in/out, RS485)
- · Supports both stand-alone and system-linked
- · Network connectivity via wired or wireless LAN
- · Supports two built-in relays

I Convenience I

- · Simultaneous authentication of up to four biometric modalities
- · Maximized UX with motion tracking sensor







FAR / FRR of Algorithm 0.00002 / 0.01 0.001 / 0.1 0.000001 / 0.1 0.0000001 / 0.01 Capacity 200K 50K 100K 50K Encryption AES 256 50K 100K 50K Safety IEC-62471, UL60950-1, EN60950-1 1, EN60950-1 <					10071112 1112 1121
Memory / Storage 8GB / 64GB (Default), 128GB, 256GB		BACS™ Quattro			
Built-in Display Audio Out Proximity Sensor Status Indication Biometric Recognition Distance 25 mm ~ 77 mm / 1 in ~ 3 in 1,195 mm / ~ 47 in 1,017 mm / ~ 40 in 35 mm ~ 76 mm / 1.4 in ~ 3 FAR / FRR of Algorithm 0,00002 / 0.01 0,001 / 0.1 0,000001 / 0.1 0,0000001 / 0.0 Encryption Safety Elec-62471, UL60950-1, EN60950-1 Event Log Capacity Communications Gigabit Ethernet, RS-485, USB 2.0 External Interface USB 2.0, HDMI Remote Control Input: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand out, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand out, RS485 A/B Dimensions 200 mm x 200 mm x 192 mm / 7.8 in x 7.5 in Weight Languages Operating Temperature Operating Temperature Operating Temperature Operating Temperature Operating Temperature Operating Temperature Operating Humidity	CPU	Integrated CPU set			
Audio Out Proximity Sensor Status Indication Biometric Recognition Distance 25 mm ~ 77 mm / 1 in ~ 3 in FAR / FRR of Algorithm Capacity 20 M Encryption Safety Event Log Capacity Communications External Interface Remote Control Input / Output Power Dimensions Power Dimensions Distance 25 mm ~ 77 mm / 1 in ~ 3 in 1,195 mm / ~ 47 in 1,017 mm / ~ 40 in 35 mm ~ 76 mm / 1.4 in ~ 3 1,195 mm / ~ 47 in 1,017 mm / ~ 40 in 35 mm ~ 76 mm / 1.4 in ~ 3 1,000,0001 / 0.1 0,0001 / 0.1 0,000001 / 0.1 0,000001 / 0.1 0,000001 / 0.1 0,000001 / 0.1 0,0000001 / 0.1 0,0000001 / 0.0 100K 50K Encryption AES 256 Safety IEC-62471, UL60950-1, EN60950-1 Event Log Capacity Communications Gigabit Ethernet, R5-485, USB 2.0 External Interface USB 2.0, HDMI Remote Control Built-in WEB server Input / Output Output Input: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Dimensions 200 mm x 200 mm x 192 mm / 7.8 in x 7.8 in x 7.5 in Weight 1,5 kg / 3.3 lb Color Metal Brown, Titanium White, Platinum Silver Languages Operating Temperature Operating Temperature Operating Temperature Operating Humidity 5% ~ 80%	Memory / Storage	8GB / 64GB (Default), 128GB, 256GB			
Proximity Sensor 2 Built-in sensors (body & hand) Status Indication Motion-activated light Biometric Recognition Fingerprint Face Iris Palm Vein Distance 25 mm ~ 77 mm / 1 in ~ 3 in 1,195 mm /~ 47 in 1,017 mm /~ 40 in 35 mm ~ 76 mm / 1.4 in ~ 3 FAR / FRR of Algorithm 0.00002 / 0.01 0.001 / 0.1 0.000001 / 0.1 0.0000001 / 0.01 Capacity 200K 50K 100K 50K Encryption AES 256 50K 100K 50K Event Log Capacity 1,000,000 events 1,000,000 events 50K 50K Communications Gigabit Ethernet, RS-485, USB 2.0 50K 50K <td>Built-in Display</td> <td colspan="4">5 Icon indicators</td>	Built-in Display	5 Icon indicators			
Status Indication Biometric Recognition Distance 25 mm ~ 77 mm / 1 in ~ 3 in 1,195 mm / ~ 47 in 1,017 mm / ~ 40 in 35 mm ~ 76 mm / 1.4 in ~ 3 FAR / FRR of Algorithm 0.00002 / 0.01 Capacity 200K 50K 100K 50K Encryption AES 256 Safety Elec-62471, UL60950-1, EN60950-1 Event Log Capacity Communications External Interface Remote Control Remote Control Input / Output Input / Output Power 12V DC / 5A Dimensions Question Languages Operating Temperature Operating Humidity Motion-activated light Face Iris Palm Vein 1,017 mm / ~ 40 in 1,010 mm / ~ 10 mm / 1,010 mm / 1,01	Audio Out	Sound effect & Voice support			
Biometric Recognition Distance	Proximity Sensor	2 Built-in sensors (body & hand)			
Distance 25 mm ~ 77 mm / 1 in ~ 3 in 1,195 mm / ~ 47 in 1,017 mm / ~ 40 in 35 mm ~ 76 mm / 1.4 in ~ 3 FAR / FRR of Algorithm 0.00002 / 0.01 0.001 / 0.1 0.0000001 / 0.1 0.0000001 / 0.01 Capacity 200K 50K 100K 50K Encryption AES 256 50K 100K 50K Safety IEC-62471, UL60950-1, EN60950-1 EN60950-1 EN60950-1 EN60950-1 EVENCUARY STANDOR	Status Indication	Motion-activated light			
FAR / FRR of Algorithm 0.00002 / 0.01 0.001 / 0.1 0.000001 / 0.1 0.0000001 / 0.01 Capacity 200K 50K 100K 50K Encryption AES 256 50K 100K 50K Safety IEC-62471, UL60950-1, EN60950-1 1, EN60950-1 <	Biometric Recognition	Fingerprint	Face	Iris	Palm Vein
Capacity 200K 50K 100K 50K Encryption AES 256 Safety IEC-62471, UL60950-1, EN60950-1 Event Log Capacity 1,000,000 events Communications Gigabit Ethernet, RS-485, USB 2.0 External Interface USB 2.0, HDMI Remote Control Built-in WEB server Input / Output Input: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Power 12V DC / 5A Dimensions 200 mm x 200 mm x 192 mm / 7.8 in x 7.8 in x 7.5 in Weight 1.5 kg / 3.3 lb Color Metal Brown, Titanium White, Platinum Silver Languages English (Customization available) Operating Temperature Operating Humidity 5% ~ 80%	Distance	25 mm ~ 77 mm / 1 in ~ 3 in	1,195 mm / ~ 47 in	1,017 mm / ~ 40 in	35 mm ~ 76 mm / 1.4 in ~ 3.0 in
Encryption Safety IEC-62471, UL60950-1, EN60950-1 Event Log Capacity 1,000,000 events Communications Gigabit Ethernet, RS-485, USB 2.0 External Interface USB 2.0, HDMI Remote Control Built-in WEB server Input / Output Input / Output Input: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Dimensions 200 mm x 200 mm x 192 mm / 7.8 in x 7.5 in Weight 1.5 kg / 3.3 lb Color Metal Brown, Titanium White, Platinum Silver Languages English (Customization available) Operating Temperature Operating Humidity 5% ~ 80%	FAR / FRR of Algorithm	0.00002 / 0.01	0.001 / 0.1	0.000001 / 0.1	0.0000001 / 0.01
Safety IEC-62471, UL60950-1, EN60950-1 Event Log Capacity 1,000,000 events Communications Gigabit Ethernet, RS-485, USB 2.0 External Interface USB 2.0, HDMI Remote Control Built-in WEB server Input / Output Input: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Power 12V DC / 5A Dimensions 200 mm x 200 mm x 192 mm / 7.8 in x 7.8 in x 7.5 in Weight 1.5 kg / 3.3 lb Color Metal Brown, Titanium White, Platinum Silver Languages English (Customization available) Operating Temperature 0 ~ 60 C / 32 ~ 140 °F Operating Humidity 5% ~ 80%	Capacity	200K	50K	100K	50K
Event Log Capacity Communications Gigabit Ethernet, RS-485, USB 2.0 External Interface Remote Control Input / Output Input / Output Power Dimensions Color Languages Operating Temperature Operating Humidity Input / Output 1,000,000 events Gigabit Ethernet, RS-485, USB 2.0 USB 2.0, HDMI Built-in WEB server Input / Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B 12V DC / 5A 200 mm x 200 mm x 192 mm / 7.8 in x 7.8 in x 7.5 in Weight 1.5 kg / 3.3 lb Color Metal Brown, Titanium White, Platinum Silver English (Customization available) Operating Temperature O ~ 60 C / 32 ~ 140 °F Operating Humidity 5% ~ 80%	Encryption	AES 256			
Communications External Interface Remote Control Input / Output Power Dimensions Color Languages Operating Temperature Operating Humidity Gigabit Ethernet, RS-485, USB 2.0 USB 2.0, HDMI Built-in WEB server Input / Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand out, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand out, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed,	Safety	IEC-62471, UL60950-1, EN60950-1			
External Interface Remote Control Built-in WEB server Input / Output Input: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Power 12V DC / 5A Dimensions 200 mm x 200 mm x 192 mm / 7.8 in x 7.8 in x 7.5 in Weight 1.5 kg / 3.3 lb Color Metal Brown, Titanium White, Platinum Silver Languages English (Customization available) Operating Temperature 0 ~ 60 C / 32 ~ 140 °F Operating Humidity 5% ~ 80%	Event Log Capacity	1,000,000 events			
Remote Control Input / Output Input / Output Power 12V DC / 5A Dimensions 200 mm x 200 mm x 192 mm / 7.8 in x 7.8 in x 7.5 in Weight Color Metal Brown, Titanium White, Platinum Silver Languages English (Customization available) Operating Temperature Operating Humidity Built-in WEB server Input: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Output: Relay x 2, Alarm Signal, Wiegand Output: Relay x 3, Alarm Signal, Wiegand	Communications	Gigabit Ethernet, RS-485, USB 2.0			
Input: Exit button, Door status, Fire, Timed, Wiegand in, RS485 A/B Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Power 12V DC / 5A Dimensions 200 mm x 200 mm x 192 mm / 7.8 in x 7.8 in x 7.5 in Weight 1.5 kg / 3.3 lb Color Metal Brown, Titanium White, Platinum Silver Languages English (Customization available) Operating Temperature 0 ~ 60 C / 32 ~ 140 °F Operating Humidity 5% ~ 80%	External Interface	USB 2.0, HDMI			
Output: Relay x 2, Alarm Signal, Wiegand Out, RS485 A/B Power 12V DC / 5A Dimensions 200 mm x 200 mm x 192 mm / 7.8 in x 7.8 in x 7.5 in Weight 1.5 kg / 3.3 lb Color Metal Brown, Titanium White, Platinum Silver Languages English (Customization available) Operating Temperature 0 ~ 60 C / 32 ~ 140 °F Operating Humidity 5% ~ 80%	Remote Control	Built-in WEB server			
Dimensions 200 mm x 200 mm x 192 mm / 7.8 in x 7.8 in x 7.5 in Weight 1.5 kg / 3.3 lb Color Metal Brown, Titanium White, Platinum Silver Languages English (Customization available) Operating Temperature 0 ~ 60 C / 32 ~ 140 °F Operating Humidity 5% ~ 80%	Input / Output				
Weight Color Metal Brown, Titanium White, Platinum Silver Languages English (Customization available) Operating Temperature Operating Humidity 1.5 kg / 3.3 lb Metal Brown, Titanium White, Platinum Silver English (Customization available) 5 % ~ 60 C / 32 ~ 140 °F 5 % ~ 80%	Power	12V DC / 5A			
Color Languages English (Customization available) Operating Temperature Operating Humidity Metal Brown, Titanium White, Platinum Silver English (Customization available) 0 ~ 60 C / 32 ~ 140 °F 5% ~ 80%	Dimensions	200 mm x 200 mm x 192 mm / 7.8 in x 7.8 in x 7.5 in			
LanguagesEnglish (Customization available)Operating Temperature $0 \sim 60 \text{ C} / 32 \sim 140 \text{ °F}$ Operating Humidity $5\% \sim 80\%$	Weight	1.5 kg / 3.3 lb			
Operating Temperature 0 ~ 60 C / 32 ~ 140 °F Operating Humidity 5% ~ 80%	Color	Metal Brown, Titanium White, Platinum Silver			
Operating Humidity 5% ~ 80%	Languages	English (Customization available)			
The state of the s	Operating Temperature	0 ~ 60 C / 32 ~ 140 °F			
Housing Materials Flame retardant ARS, Poly Carbonate, PP	Operating Humidity	5% ~ 80%			
Hame retained the retained to	Housing Materials	Flame retardant ABS, Poly Carbonate, PP			
Management SW CruAMS (CrucialTrak Access Management System)	Management SW	CruAMS (CrucialTrak Access Management System)			
Mounting Default mounting bracket included	Mounting	Default mounting bracket included			
Certifications CE, NRTL, TUV, KC, FCC	Certifications	CE, NRTL, TUV, KC, FCC			

Korea Headquarters I 62 Pangyo-ro 255, Bundang, Seongnam 13486, Korea US Headquarters I 820 Gessner Road, Suite 1275, Houston, TX 77024

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