

**Configure, Control, Connect.
Connect Devices, Connect the World.**

Industrial Connectivity and Networking Solutions

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About Us

Since 1987, SYSTEMBASE has been specializing in Serial communication, networking technology and IoT, and has proudly positioned itself as one of the leading pioneers in the Information Technology industry in Korea

Our products include controller chips, embedded CPU modules and the end products that are well positioned where quality of connectivity is prioritized in each and every industry from M2M to the 4th Industrial Revolution field, from domestic to foreign customers, for over three decades.

SYSTEMBASE is a leading developer and manufacturer in various industrial automation sectors and has dedicated itself solely to system integrators and/or the end-users through its highly qualified in-house engineering core.

Our professional teams who have been developing customized products and solutions are keen in providing our clients with high-level of technical skills and continuous maintenance.

1987年に創業した

SYSTEMBASEは、シリアル通信技術のスペシャリストとして通信業界を牽引してきました。独自のネットワーク技術をベースにIoT・データ解析・AI分野へビジネス領域を拡大しつつグローバルにIT産業に貢献しています。

通信コントローラーや組込CPUモジュール、アプリケーションに特化したカスタム製品、通信品質が最優先される工業製品、M2M、そしてIoTやAIなどの第4次産業革命をサポートし推進する製品群を世界各国に向けて製造・供給しています。

短距離はもちろん中・長距離を含めて無線通信をカバーした通信デバイスのメーカーとして、通信コントローラーや組込モジュール・組込ボード・デバイスサーバーまで独自の開発技術をコアに製品開発・製造しています。

SYSTEMBASEは、これからも各種通信デバイス・通信機器・OEM・ODM向けカスタム製品メーカーとしてグローバルに蓄積した開発技術・生産実績を元にワンストップでお客様の期待に沿う製品開発と製品を提供していきます。



OEM/ODM

SystemBase provides OEM/ODM services for hardware devices such as embedded CPU-based devices, inspection equipment and control systems. We have been developing customized products for domestic and foreign customers for many years. Our professional teams are keen in providing our clients with customized solutions to their newly developed or on-going projects.

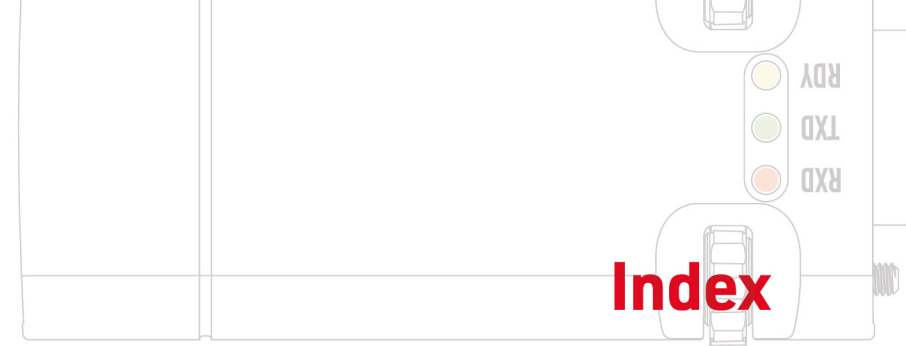


5 Years Warranty & RMA

SystemBase provides exclusive free 5 years warranty. Our warranty covers product that show defects of material or manufacture that are objectively and demonstrably attributable to SystemBase from the date of purchase. Defective products under the warranty period will either be repaired or replaced through RMA process.



International Standard Certification



03 Converter

Wireless

- Bluetooth
- SmartMesh
- Wi-Fi
- Wi-Fi HaLow
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Wired

- Serial
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- LAN
- I/O
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13 Embedded CPU Module

- ARM9 CPU
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15 Ethernet Module

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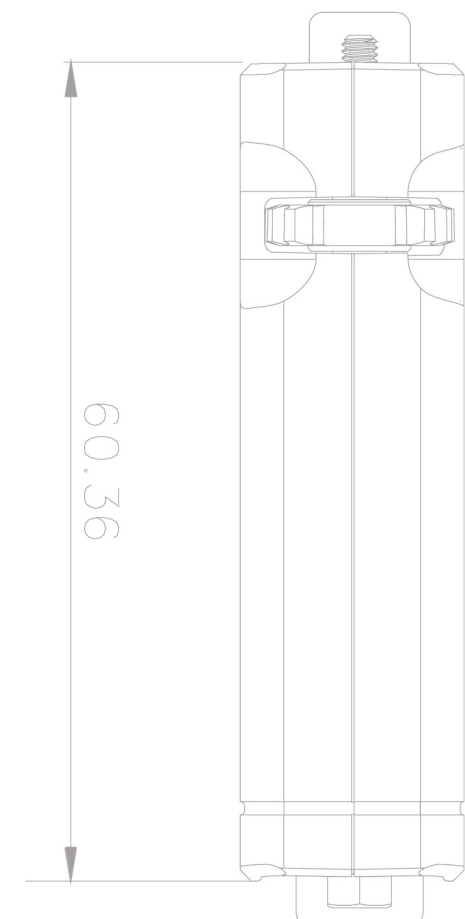
18 Semiconductor

- UART controller
- PCI controller
- PCI UART controller

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23 Product Map

25 Application



Bluetooth

RS232 to Bluetooth
RS232/RS422/RS485 to Bluetooth
USB to Bluetooth



		WCS-232	TALUS	sBT	uBT	
Wireless	Description	RS232 to Bluetooth	USB to Bluetooth	RS232/RS422/RS485 to Bluetooth	USB to Bluetooth	
	Standard	Bluetooth 2.0 + EDR	Bluetooth 4.0 + EDR	Bluetooth 5.2		
	Distance	max. 100m				
	Frequency (may vary from country)	2.4GHz		2.400-2.485GHz		
	RF Power(EIRP) (may vary from country)	Max. 18dBm	Max. 11dBm	Max. 20dBm		
	Receive Sensitivity (may vary from mode)	Max. -88dBm	Max. -90dBm	Max. -96dBm		
	Modulation (may vary from mode)	GFSK				
	Bluetooth Chipset	Protocol	BC417/Qualcomm	CSR8311/Qualcomm	Bluetooth 5.2 / 802.15.4 / 2.4GHz Proprietary	
		Memory	48kB/8Mb	56kB/5Mb	512KB Flash/128KB RAM	
		HW Security	SPP	DUN, FAX, SPP, HID, FTP, OPP, A2DP, AVRCP, HSP, HFP, PAN, BPP	128-bit AES (CCM, ECB, AAR)	
Speed	max. 3Mbps		max. 2Mbps			
Serial	Port	1(DCE)	-	1(DCE)	-	
	Interface	RS232	-	RS232/RS422/RS485	-	
	Protocol	SPP	DUN, FAX, SPP, HID, FTP, OPP, A2DP, AVRCP, HSP, HFP, PAN, BPP	SPP	DUN, FAX, SPP, HID, FTP, OPP, A2DP, AVRCP, HSP, HFP, PAN, BPP	
	Speed	Max. 921.6Kbps	-	Max. 921.6Kbps	-	
	Signal	RS232	"TXD, RXD, RTS, CTS, DTR, DSR"	-	TXD, RXD, RTS, CTS	-
		RS422	-	-	TX+, TX-, RX+, RX-	-
		RS485	-	-	DATA+, DATA-	-
	Data bit	8	-	8	-	
	Stop bit	1, 2	-	1	-	
	Parity	None, Even, Odd	-	None, Even, Odd	-	
Flow Control	RTS/CTS	-	RTS/CTS	-		
USB	Interface	-	USB Type A	-	USB Type A	
	Specification	-	USB 2.0, Full-Speed	-	USB 2.0, Full-Speed	
SW	Management Tool/ Configuration	WCSConfig	BlueSoleil	WCSConfig		
	OS Support	Windows 7 or above Windows Server 2008 or above	Windows XP/Vista/7 or above (32/64bit) Linux (3rd party driver required) MAC OS X (driver required)	Windows 7 or above Windows Server 2008 or above	Windows XP/Vista/7 or above (32/64bit) Linux (3rd party driver required) MAC OS X (driver required)	
HW	LED	Mode, Connect, SRL(RX/TX)	RDY	RDY, LNK, SRL		
	Power	5 ~ 12VDC	5VDC (USB VBUS)	5~24VDC	5VDC (USB VBUS)	
	Dimension (W x L x H)	76.0 x 31.0 x 16.0mm	100.7 x 22.0 x 10.0mm	34.9 x 74.04 x 16.5mm	25.1 x 89.0 x 11.5mm	
		2.99 x 1.22 x 0.63in	3.97 x 0.87 x 0.4in	1.37x 2.65 x 0.65in	0.99 x 3.5 x 0.45in	
	Weight	24g	22g	23.5g	19g	
Operating Temperature	0.052lb		0.048lb	0.051lb		
					-40 ~ 85°C -40 ~ 185°F	

SmartMesh

RS232/RS422/RS485 to SmartMesh
DI to SmartMesh
LAN to SmartMesh



		SMC-1010TM/S	DMC-2040TM/S	EMC-1010RM/M	
Wireless	Description	RS232/RS422/RS485 to SmartMesh	DI to SmartMesh	LAN to SmartMesh	
	Standard	IEEE 802.15.4e TSCH			
	Distance	max. 100m			
	Frequency (may vary from country)	ISM 2.4GHz Band			
	Antenna	3dBi			
	Mode	DSSS			
	Max. Data Size	60Byte			
	Serial Port	Serial Port	1	2	1
		Interface	RS232, RS422, RS485	RS232(Console), RS485	RS232(Console)
		Protocol	Modbus RTU/ASCII		
Speed	RS232	max. 921.6kbps	115.2kbps(Console)	115.2kbps(Console)	
	RS485		-	-	
	RS485		max. 921.6kbps	-	
Signal	RS232	TXD, RXD, RTS, CTS	TXD, RXD		
	RS485	TXD+, TXD- RXD+, RXD-	-		
	RS485	TRXD+, TRXD-	-		
Data bit	8				
Stop bit	1				
Parity	None, Even, Odd				
Protection	±15kV				
Flow Control	RTS/CTS	-			
LAN	Port No.	-		1	
	Protocol	-		Telnet, ICMP, DHCP, HTTP, SSH, FTP, MODBUS TCP	
	Ethernet	-		10/100Mbps	
DIO	Digital Input	-	4 channels (Dry Contact)	-	
	Digital Input Mode	-	DI or Event Counter (1kHz)	-	
SW	Utility / Configuration	MeshConfig		Web	
	OS Support	Windows 7 or above Windows Server 2008 or above		-	
HW	Power	12~48VDC	9~48VDC	12~48VDC	
	LED	RDY(Green), RF(Yellow), TX(Green), RX(Yellow)	RDY(Green), DATA(Red), RF(Yellow), IO1(Green), IO2(Yellow), IO3(Green), IO4(Yellow)	STATUS(Green), RDY(Green), ERR(Red)	
	Dimension (W x L x H)	75.8 x 82.6 x 28.4mm	83.55 x 118.9 x 33.2mm	170 x 122 x 40mm	
		2.98 x 3.25 x 1.12in	3.29 x 4.68 x 1.31in	6.69 x 4.80 x 1.57in	
	Weight	161g	142g	618g	
Humidity	0.354lb		0.313lb	1.362lb	
	5~95% non-condensing				
	Storage Temperature	-40 ~ 85°C -40 ~ 185°F			
Operating Temperature	-40 ~ 85°C -40 ~ 185°F				

Wi-Fi Wi-Fi HaLow

DIO/AI/RO/RTD to Wi-Fi
RS232/RS422/RS485 to Wi-Fi
RS232/RS422/RS485 to Wi-Fi HaLow
LAN to Wi-Fi HaLow



	BASSO-1070TW/ioWiFi	sWiFi/all	sHaLow/all	eHaLow/Br	HaLowGate	
Wireless	Description	DIO/AI/RO/RTD to Wi-Fi	RS232/RS422/RS485 to Wi-Fi	RS232/RS422/RS485 to Wi-Fi HaLow	LAN to Wi-Fi HaLow	
	Standard	IEEE 802.11 a/b/g/n		IEEE 802.11ah		
	Distance	max. 100m		max. 1.5km		
	Frequency (may vary from country)	2.4GHz / 5GHz Dual Band		925~931MHz(KR) / 920~928.1MHz(JP)		
	Antenna	Dipole Antenna Avg 1.5dBi/2.4GHz, -0.7dBi/5GHz		Dipole Antenna Avg 2.5dBi		
	Speed	max. 54Mbps		max. 15Mbps		
	Mode	Station, Peer to Peer		Station, Peer to Peer		
	Modulation	OFDM and so on				
	Port	1 (DTE)	1 (DCE)			
	Interface	RS232(Console)/RS485(Terminal Block)	RS232/RS422/RS485			
Serial	Protocol	COM Port Redirector(Virtual COM Port), TCP Server/Client, UDP, Modbus TCP	COM Port Redirector(Virtual COM Port), TCP Server/Client, UDP	TCP Server/Client, UDP		
	Speed	max. 921.6Kbps				
	Signal	RS232	TXD, RXD	TXD, RXD, RTS, CTS, DTR, DSR, DCD	TXD, RXD, RTS, CTS	
		RS422	-	TXD+, TXD-, RXD+, RXD-		
		RS485	TRXD+, TRXD-			
	Data bit	8	5, 6, 7, 8	8		
	Stop bit	1	1,2	1		
	Parity	None, Even, Odd				
	Network	Protocol				TCP, UDP, ICMP, DHCP, HTTP, IPv4
		Ethernet				10/100Mbps (Auto-MDIX)
PoE(PD)					-	
SW	Utility	ioWiFiConfig	sWiFiConfig(Windows, Android)	sWiFiConfig	eHaLowConfig	
	OS Support	Windows 7 or above Windows Server 2008 or above				
HW	LED	RDY, 232, 485, Wireless, DI1, DI2, DO1, DO2, RO, RTD, AI	RDY, TXD, RXD		RDY, Wireless	
	Power	12 ~ 48VDC	5 ~ 12VDC		12 ~ 48VDC	
	Battery					
	Dimension (W x L x H)	101.8 x 82.6 x 26.7mm	40.9 x 90.1 x 16.5mm	54.5 x 102.5 x 24.5	54.5 x 102.5 x 24.5	75.8 x 83.6 x 28.4mm
		4.01 x 3.25 x 1.05in	3.55 x 1.61 x 0.65in	2.14 x 4.03 x 0.96in	2.14 x 4.03 x 0.96in	2.98 x 3.29 x 1.12in
	Weight	230.7g 0.508lb	32.1g 0.070lb	156g 0.343lb	156g 0.343lb	163.8g 0.361lb
Operating Temperature					-40 ~ 85°C -40 ~ 185°F	

LoRa

RS232/RS422/RS485 to LoRa
USB to LoRa
LoRa Repeater
Ethernet to LoRa
DIO/AI/RO/RTD to LoRa
Relay to LoRa



	sLory	uLory	rLory	LoryGate	ioLory	LoryRelay-1020TR	
Wireless	Description	RS232/RS422/RS485 to LoRa	USB to LoRa	Repeater/Relay	Ethernet to LoRa	DIO/AI/RO/RTD to LoRa	Relay to LoRa
	Standard	LoRa					
	Distance	approx. 20km in open area					
	Frequency (may vary from country)	917 ~ 923MHz					
	RF Output	max. 25mW					
	Encryption	AES 128					
	Port	1 (DCE)	1 (USB)	1 (DCE)	1 (RJ45)	1 (DTE)	-
	Interface	RS232/RS422/RS485	-	RS232 Console		RS232(Console)/RS485(Terminal Block)	-
	Speed	Max. 921.6Kbps	-	9.6Kbps	Max. 115.2Kbps		-
	Serial	Signal	RS232	TXD, RXD, RTS, CTS, DTR, DSR	-	TXD, RXD	TXD, RXD, RTS, CTS, DTR, DSR, DCD
RS422			TXD+, TXD-, RXD+, RXD-	-	-	-	-
RS485			TRXD+, TRXD-	-	-	TRXD+, TRXD-	-
Data bit		8	-	-	8	-	-
Stop bit		1	-	-	1	-	-
Parity	None, Even, Odd	-	-	None	None, Even, Odd	-	
Flow Control	RTS/CTS	-	-	None	RTS/CTS	-	
Relay	Port					2	
	AC/DC					NO: 250VAC, 5A/30VDC, 5A NC: 250VAC, 3A/30VDC, 3A	
	Protocol					Modbus RTU/ASCII	
USB	Interface	-	USB 2.0 Full-Speed			-	
Network	Protocol			TCP, UDP, Telnet, ICMP, DHCP, TFTP, HTTP, SNMP, SSH, SSL	-	-	
	Ethernet			10/100Mbps (RJ45)	-	-	
SW	OS			Embedded Linux	-	-	
	Utility / Configuration	AT Command, LoRaConfig2(Windows, Android)		LoryGateView, LoryGateConfig Web, SSH, Telnet	AT Command, LoRaConfig2	AT Command, LoRaConfig2 (Windows, Android)	
HW	OS support	Windows 7 or above Windows Server 2008 or above					
	Encryption			SSH	-	-	
	LED	RDY, SRL, LNK	RDY, TXD, RXD	RDY, SRL, LNK	RDY, TXD, RXD	RDY, 232, 485, LoRa, DI1, DI2, DO1, DO2, RO, RTD, AI	RDY, RF, DATA, IO1, IO2, IO3, IO4
Power	5VDC	5VDC(USB VBUS)	5VDC	12 ~ 48VDC	12 ~ 48VDC	12~24VDC	
Dimension (W x L x H)	34.9 x 90.15 x 16.5mm	25.1 x 89.0 x 11.5mm	34.9 x 90.15 x 16.5mm	75.8 x 83.6 x 28.4mm	101.8 x 82.6 x 26.7mm	83.55 x 118.9 x 33.2mm	
	1.37 x 3.55 x 0.65in	0.99 x 3.50 x 0.45in	1.37 x 3.55 x 0.65in	2.98 x 3.3 x 1.12in	4 x 3.25 x 1.05in	3.29 x 4.7 x 1.31in	
Weight	40.5g 0.089lb	19g 0.041lb	40.5g 0.089lb	205.5g 0.453lb	218.7g 0.482lb	135g 0.297lb	
Operating Temperature						-40 ~ 85°C -40 ~ 185°F	

Serial

RS232 to RS422/RS485
RS232 to RS422/RS485 Digital-Isolation



		CS-428/9AT-mini2	CS-428/9AT-PRO2	CS-428/9AT-IS02	CS-428i
Serial	Description	RS232 to RS422/RS485			
		Standard		Digital-Isolated	
	Speed	max. 921.6Kbps			
	Distance	RS422/485	max. 1.2km		
	Connector	RS232	DB9 (DCE)		DB9(DCE/DTE)
		RS422/485	Terminal Block		
	Signal	RS232	TXD, RXD, RTS, DTR		TXD, RXD
		RS422	TXD+, TXD-, RXD+, RXD-		
		RS485	TRXD+, TRXD-		
	Mode	RS422	Point to Point, Multi-drop		
RS485		Echo, Non-Echo			
Protection		±15kV	±30kV	±15kV	
Isolation		-	3kV	5kV	
Max. Connectable Devices (RS422/485)		10		24	
HW	Power Supply Mode	Port Powered, External Power			External Power
	Dimension (W x L x H)	34.35 x 35.87 x 16.5mm	74.2 x 36.8 x 19.0mm	74.2 x 36.8 x 19.0mm	101.8 x 82.6 x 26.7mm
		1.41 x 1.35 x 0.65in	1.45 x 2.92 x 0.75in	1.45 x 2.92 x 0.75in	4.00 x 3.25 x 1.05in
	Weight	40g	50g	50g	198g
		0.088lb	0.110lb	0.110lb	0.436lb
Operating Temperature	-40 ~ 85°C				
	-40 ~ 185°F				

LAN

RS232/RS422/RS485 to LAN-Power over Ethernet
RS232/RS422/RS485 to LAN
RS232 to LAN



		sLAN/all-PoE	sLAN/all	CS-LAN	
Network	Description	RS232/RS422/RS485 to LAN-PoE	RS232/RS422/RS485 to LAN	RS232 to LAN	
	Protocol	TCP, UDP, ICMP, DHCP, HTTP, IPv4			
	Ethernet	10/100Mbps (Auto-MDIX)			
	PoE(PD)	IEEE 802.3af	-		
Serial	Port	1 (DTE)	1 (DTE)	1 (DCE)	
	Interface	RS232/RS422/RS485		RS232	
	Protocol	COM Port Redirector(Virtual COM Port), TCP Server/Client, UDP Server/Client			
	Speed	max. 921.6Kbps			
	Signal	RS232	TXD, RXD, RTS, CTS, DTR, DSR, DCD, RI		TXD, RXD, RTS, CTS, DTR, DSR
		RS422	TXD+, TXD-, RXD+, RXD-		-
		RS485	TRXD+, TRXD-		
	Data bit	5, 6, 7, 8			
	Stop bit	1, 2			
	Parity	None, Even, Odd			
Flow Control	RTS/CTS, XON/XOFF				
SW	OS	RTOS			
	Utility / Configuration	COM Port Redirector, TestView, SGConfig, Web			
	OS Support	Windows 7 or above Windows Server 2008 or above			
HW	LED	RDY, TXD, RXD			
	Power	Micro USB 5V Input, PoE 48V Input	5VDC		
	Dimension (W x L x H)	54.5 x 102.5 x 24.5mm	40.9 x 74.0 x 16.5mm	46 x 77.5 x 25mm	
		2.15 x 4.04 x 0.96in	1.61 x 2.91 x 0.65in	1.81 x 3.05 x 0.98in	
	Weight	79g	34.7g	32.1g	
		0.174lb	0.076lb	0.070lb	
Operating Temperature	-40 ~ 85°C				
	-40 ~ 185°F				

USB

USB to RS232/RS422/RS485 Isolation
 USB to RS232 or RS422/RS485
 USB-C to RS232



Latching USB applied



Video



		Multi-1USB-ISO	Multi-1USB-C	Multi-1USB	Multi-2USB	Multi-4USB	Multi-4U	Multi-8U	
USB	Interface	USB Type-A	USB Type-C	USB Type-A					
	Specification	USB 2.0 Full-Speed			USB 2.0 High-Speed				
Serial	Port	1 (DTE)		2 (DTE)	4 (DTE)	4 (DTE)	8 (DTE)		
	Interface	RS232/RS422/RS485	RS232	RS232 or RS422/RS485					
	Signal Line	RS232	TXD, RXD, RTS, CTS	TXD, RXD, RTS, CTS, DTR, DSR, DCD, RI					
		RS422	TXD+, TXD-, RXD+, RXD-						
		RS485	TRXD+, TRXD-						
	Isolation	3kV	-						
	Protection	±15kV							
	Flow Control	RTS/CTS, XON/XOFF							
	AutoToggling	Supported							
	SW	Utility	TestView						
OS Support		Windows 7 or above Windows Server 2008 or above Linux							
HW	Dimension (W x L x H)	74.0 x 34.9 x 16.5mm	49.0 x 39.0 x 16.3mm	94.0 x 39.0 x 16.3mm	184.1 x 39.0 x 16.3mm	135.0 x 84.0 x 32.1mm	210.0 x 84.0 x 32.1mm		
		2.91 x 1.37 x 0.65in	1.93 x 1.54 x 0.64in	3.7 x 1.54 x 0.64in	7.25 x 1.54 x 0.64in	5.31 x 3.31 x 1.26in	8.27 x 3.31 x 1.26in		
	Weight	32g	30g	40g	60g	105g	210g	340g	
		0.070lb	0.066lb	0.088lb	0.132lb	0.231lb	0.462lb	0.749lb	
	Cable Length	1,200mm	600mm				1,200mm		
Operating Temperature	3.94ft	1.97ft				3.94ft			
	-40~85	0 ~ 50°C							
		-40 ~ 185°F							
		32 ~ 122°F							

USB Hub

High-speed Industrial USB Hub
 Super-speed Industrial USB Hub



		uGate-400H	uGate-400S
USB	Specification	USB 2.0	USB 3.0
		USB 2.0 High-Speed	USB 3.0 Super-Speed
	Interface	USB Type-A (Downstream)	
		USB Type-B (Upstream)	
	Downstream Port	4	4
	Upstream Port	1	
Protection	±4kV (Contact)		
	±8kV (Air)		
Power (External)	12 ~ 48VDC		
HW	Dimension (W x L x H)	101.8 x 68.0 x 26.7mm	101.8 x 82.6 x 26.7mm
		4.00 x 2.68 x 1.05in	4.00 x 3.25 x 1.05in
Weight	160g	192g	
	0.352lb	0.423lb	
Operating Temperature	-40 ~ 85°C		
	-40 ~ 185°F		

Latching Applied USB Cable

Latching USB AM-AM
 Latching USB AM-AF



		USB AM-AM	USB AM-AF
Connector	1st	USB 2.0 AM	
	2nd	USB 2.0 AM	USB 2.0 AF
Function	Latching tensile force	5kg (max. 5.9kg min. 4.9kg) / 11.023lb (max. 13.007lb min. 10.802lb)	
		forced desorption average 3kg / 6.613lb	
Cable	Cable	Braided with AL shield	
		Noise protection core (High-frequency cut EMI)	
Cable	Standard	28AWG twisted pair	
		VCC/GND: 24AWG	
	Length	1.2m	
3.94ft			

Digital In-Out Analog In

RS232/RS422/RS485 to DIO
RS232/RS422/RS485 to AI
USB to DIO
USB to AI



		BASSO-1040DT/DIO	BASSO-1040DT/AI	BASSO-1040UT/DIO	BASSO-1040UT/AI	
Serial	Port	1(DCE)	1(DCE)	1(USB)	1(USB)	
	Interface	RS232/RS422/RS485			-	
	Speed	max. 921.6Kbps			-	
	Signal	RS232	TXD, RXD, RTS, CTS			-
		RS422	TXD+, TXD-, RXD+, RXD-			-
		RS485	TRXD+, TRXD-			-
	Data bit	8			-	
	Stop bit	1, 2			-	
Protection	Max. ±15kV			-		
USB	Protocol	Modbus RTU/ASCII				
	Interface	-	-	USB 2.0 (Virtual Com Port)		
	Connector	-	-	Type A		
DIO	I/O Select	2xDI+2xDO or 4xDI 4xDO(Selectable)	-	2xDI+2xDO or 4xDI 4xDO(Selectable)	-	
	Digital Input	4 channels (Dry&Wet Contact)	-	4 channels (Dry&Wet Contact)	-	
	Digital Input Mode	DI or Event Counter(1kHz)	-	DI or Event Counter(1kHz)	-	
	Digital Output	4 channels(Sink)	-	4 channels(Sink)	-	
	Digital Output Mode	DO or Pulse Output(500Hz)	-	DO or Pulse Output(500Hz)	-	
	Output Current Rating	500mA per channel	-	500mA per channel	-	
	Isolation	1500Vrms for 1 minute	-	1500Vrms for 1 minute	-	
	Power	12 ~ 24V(Terminal Block)	-	12 ~ 24V(Terminal Block)	-	
AI	Analog Input	-	4 (Single Ended)	-	4 (Single Ended)	
	Resolution	-	16bits	-	16bits	
	Sampling Rate	-	100Hz	-	100Hz	
	Analog Input Mode	-	Configurable as 4/20mA or 0-10VDC(by SW)	-	Configurable as 4/20mA or 0-10VDC(by SW)	
	Input Voltage Range	-	0(2) ~ 10V	-	0(2) ~ 10V	
	Input Current Range	-	0(4) ~ 20mA	-	0(4) ~ 20mA	
	Power	-	12 ~ 24V(Terminal Block)	-	12 ~ 24V(Terminal Block)	
HW	Power	5 ~ 24V(DC-Jack)		USB Bus power		
	LED	I01, I02, I03, I04	I01, I02, I03, I04	I01, I02, I03, I04	I01, I02, I03, I04	
	Dimension (W x L x H)	102.5 x 54.5 x 24.5mm				
		4.04 x 2.15 x 0.96in				
	Weight	68g				
		0.149lb				
	Operating Temperature	-40 ~ 85°C				
-40 ~ 185°F						

CAN

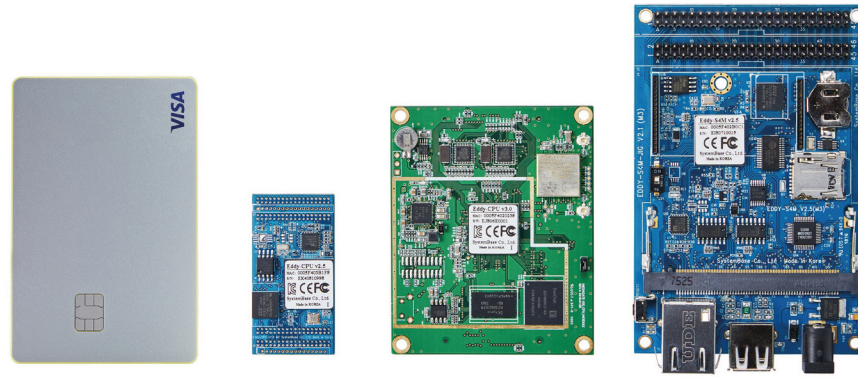
Ethernet to CAN
RS232 to CAN
USB to CAN
USB to CAN Analyzer



		eCAN	sCAN	uCAN	uCAN Analyzer	
CAN	Description	Ethernet to CAN	RS232 to CAN	USB to CAN	USB to CAN Analyzer	
	CAN Standard	CAN 2.0 A/B				
	Distance	max. 1km				
	Speed	max. 1Mbps				
	Signal	CAN_H, CAN_L, VDD, GND			CAN_H, CAN_L	
Network	Protocol	TCP, UDP, ICMP, DHCP, HTTP, IPv4	-	-	-	
	Ethernet	10/100Mbps	-	-	-	
Serial	Interface	-	RS232	-	-	
	Speed	-	max. 460.8Kbps	-	-	
	Signal	-	TXD, RXD, RTS, CTS, DTR, DSR	-	-	
	Data bit	-	8	-	-	
	Stop bit	-	1, 2	-	-	
	Parity	-	None, Even, Odd, Mark	-	-	
USB	Interface	-	-	USB Type A		
	Specification	-	-	USB 2.0, Full-Speed		
SW	OS	RTOS	-	-	-	
	Management Tool/Configuration	Web, eCANConfig, eCANView	CANView		uCANView	
	OS Support (Utility)	Windows 7 or above Windows Server 2008 or above				
	OS Support (Driver)	-	Windows 7 or above Windows Server 2008 or above			
HW	LED	RDY, DATA, LNK	RDY, DATA, ERR		TXD, RXD	
	Power	5VDC		5VDC (USB VBUS)	5VDC	
		Dimension (W x L x H)	40.9 x 74 x 16.5mm 1.61 x 2.91 x 0.65in	34.9 x 67.1 x 16.5mm 1.37x 2.65 x 0.65in	64.3 x 34.9 x 16.5mm 2.53 x 1.37 x 0.65in	40 x 80 x 23mm 1.57 x 3.14 x 0.90in
	Weight	33.9g 0.074lb		23.3g 0.051lb	26.1g 0.057lb	50g 0.110lb
		Operating Temperature	-40 ~ 85°C			
					-40 ~ 185°F	

Embedded CPU Module

ARM9 CPU
ARM Cortex-A8 CPU



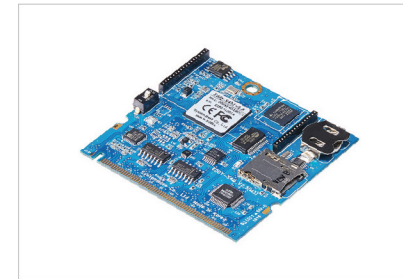
	Eddy-CPU v2.5	Eddy-S4M v2.5	Eddy-CPU v3.0	
HW	Processor	ARM926EJ-S (400MHz)		
	Memory	32MB SDRAM, 8MB Flash		
	External Interface	19 bits Address / 16 bits Data Bus	-	8 bits Address / 8 bits Data Bus
	GPIO	56	34	8
	Interface	ADC, SPI, TWI, USB 2.0, NAND Flash Attachable, Serial 4ports	ADC, SPI, TWI, USB 2.0, UART, MCI	UART, SPI, I2C, CAN, SDIO, PRU-ICSS
	Power	3.3VDC		
	Dimension (W x L x H)	25.0 x 48.5 x 8.5mm	59.75 x 61.80 x 7.3mm	62.2 x 59.2 x 9.0mm
		0.98 x 1.9 x 0.33in	2.35 x 2.43 x 0.29in	2.45 x 2.33 x 0.35in
	Weight	9g	14.2g	23.3g
		0.019lb	0.031lb	0.051lb
Operating Temperature	-40 ~ 85°C			
	-40 ~ 185°F			
Network	Protocol	TCP, UDP, Telnet, ICMP, DHCP, TFTP, HTTP, SNMP, SSH, SSL, IPv4	TCP, UDP, Telnet, ICMP, DHCP, TFTP, HTTP, SNMP, SSH, SSL, IPv4, IPv6	
	Ethernet	10/100Mbps	10/100/1000Mbps	
SW	OS	Embedded Linux	Yocto Linux	
	Management Tool	SNMP, Web, PortView		
	Development Tool	LemonIDE™ & SDK	In Progress	
	Firmware	JTAG, USB, Debug Port		

Eddy-CPU v2.5



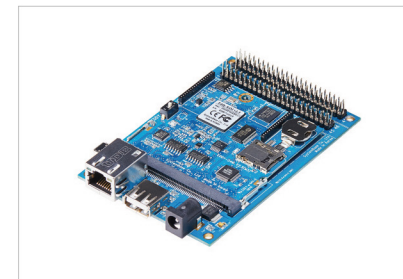
- ARM926EJ-S CPU, 8MB DATA Flash, 32/64MB SDRAM
- Pin Header Interface (144 Pins)
- 10/100 Ethernet PHY (Auto MDIX) and 4 UARTs
- Programmable GPIO (56 Pins)
- Supports TWI (I2C), SPI, MCI, 4Ch ADC
- 2 USB Hosts and 1 USB Device Port Provided
- Watchdog Timer
- Supports SNMP
- SDK and API for Developers Provided
- Operated by Embedded Linux

Eddy-S4M v2.5



- ARM926EJ-S CPU, 8MB DATA Flash, 32MB SDRAM
- 3 USB 2.0 FS (12Mbps) Host
- 10/100Base-T with Auto MDI/MDIX
- MicroSD Support (Max. 16GB, SDHC Support)
- 2 RS232 & 2 RS422/RS485 (w/Auto Toggle)
- WDT & RTC with Battery (CR1220) Support
- Max. 34 Programmable GPIOs
- SDK and API for Developers Provided
- Operated by Embedded Linux

Eddy-S4M v2.5 with JIG



- A carrier board that is equipped with Eddy-S4M CPU
- Helps programmers easily mount and test their applications
- Includes miniPCI connector (to be equipped with Eddy-S4M), Ethernet RJ45, USB Host, Power, and Reset Switch
- Provides all functions of Eddy-S4M in the form of a pin connector

Eddy-CPU v3.0



- Cortex-A8 1Ghz CPU, DDR3 512MB
- Nand Flash 512MB
- 2X 10/100/1000Mbps Ethernet
- 4 UARTs, ICh I2C, ICh SPI, 2Ch USB
- RTC & Watchdog Timer
- Operated by Embedded Linux

LemonIDE

LemonIDE is an Eclipse based development environment, providing GUI which enables easy development of applications and firmware running on Linux. All the operations related to GNU C/C++ compiler, source code editor, remote debugging and remote monitoring can be processed in this environment.

Windows Utility Support

SystemBase provides powerful and free utilities to monitor and test your completed products over the network and the serial interface. Management utilities include COM Port Redirector, PortView and TestView.

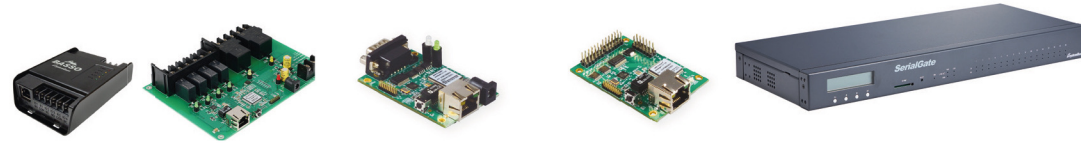
Serial to Ethernet

Relay to Ethernet

Ethernet to Relay

1port RS232 or RS232/RS422/RS485 to Ethernet

16ports RS232/RS422/RS485 RJ45 to Ethernet



	SG-3021TIL	SG-3061TIL	SG-3011		SG-1160/ALL	
			DCL	PCL		
Serial	Port	-	1 (DTE)	1	16	
	Pin	-	DB9	Pitch 2.54mm Pin Header	RJ45	
	Interface	-	RS232	RS232/RS422/RS485	RS232/RS422/RS485 (Echo, Non-Echo)	
	Protocol	-	COM Port Redirector (Virtual COM Port), TCP Server/Cilent, UDP Server/Cilent	COM Port Redirector (Virtual COM Port), TCP Server/Cilent, UDP Server/Cilent, TTL	COM Port Redirector (Virtual COM Port), TCP Server/Cilent, UDP Server/Cilent, TCP Broadcast/Multiplex, MODBUS ASCII/RTU	
	Speed	-	Max. 921.6Kbps			
Relay	Port	2	6	-		
	AC/DC	250VAC/30VDC [NO: 5A, NC: 3A] x 2EA	240VAC/30VDC [NO: 40A, NC: 30A] x 2EA 250VAC/30VDC [NO: 5A, NC: 3A] x 4EA	-		
Network	LAN	10/100Mbps (Auto-MDIX)				
	Protocol	TCP, UDP, ICMP, DHCP, HTTP, Modbus TCP, IPv4	TCP, UDP, ICMP, DHCP, HTTP, IPv4	TCP, UDP, Telnet, ICMP, DHCP, TFTP, HTTP, IPv4, SNMP, SSH, FTP, MODBUS TCP		
SW	OS	RTOS			Embedded Linux	
	Utility / Configuration	COM Port Redirector, SGConfig, Web	COM Port Redirector, TestView, SGConfig, Web	COM Port Redirector, PortView, TestView, SGConfig, Web, SNMP		
	Setting	Web, SGConfig			Web, SSH, Telnet, SGConfig	
	Security	-			SSH	
	OS Support	Windows 7 or above Windows Server 2008 or above				
HW	LED	PWR, Relay	RDY, SRL	RDY, SRL1~3	TX, RX, PWR, WAN, LAN, RDY, LCD	
	Power	12VDC		5VDC	100 ~ 220AVC	
	Dimension (W x L x H)	83.55 x 118.9 x 33.2 mm	160 x 115 x 29 mm	46.0 x 77.5 x 25.0mm	46.0 x 77.5 x 25.0mm	430.0 x 180.8 x 44.0mm
		3.29 x 4.68 x 1.31in	6.3 x 4.53 x 1.14in	1.81 x 3.05 x 0.98in	1.81 x 3.05 x 0.98in	17 x 7.12 x 1.73in
	Weight	135g	244g	32.1g	20.7g	2,470g
		0.297lb	0.537lb	0.070lb	0.045lb	5.445lb
Operating Temperature	-40 ~ 85°C		0 ~ 70°C		0 ~ 50°C	
	-40 ~ 185°F		32 ~ 158°F		32 ~ 122°F	

Serial to Ethernet

1/2/4/8ports RS232/RS422/RS485 DB9 to Ethernet

1/2/4/8/16ports RS232/RS422/RS485 RJ45 to Ethernet

Supports Modbus TCP Master/Slave

Modbus Serial ASCII to Modbus TCP
Modbus Serial RTU to Modbus TCP

Industrial grade operating temperature

-40 to 85°C (-40 ~ 185°F)

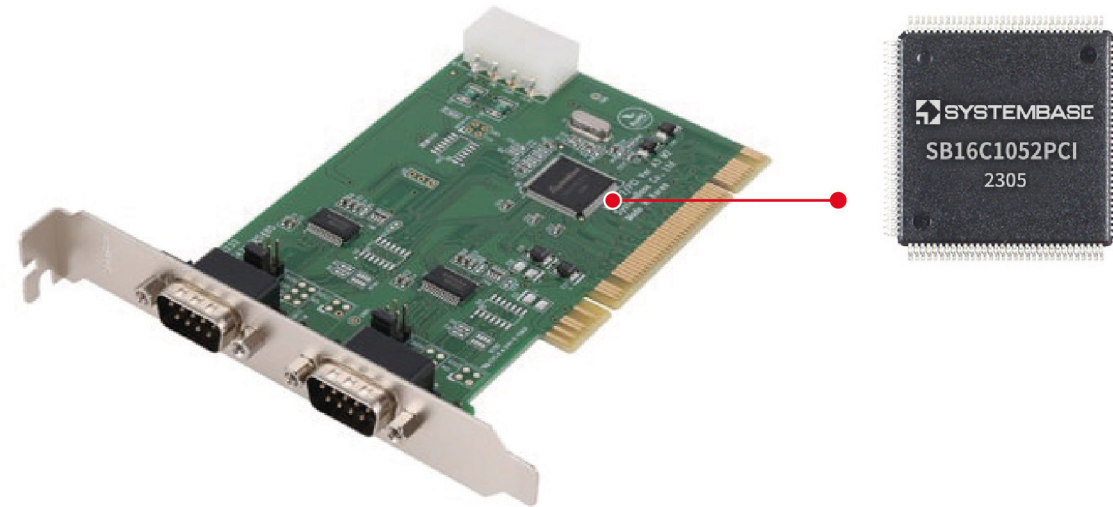


		SG-2011		SG-2021		SG-2041		SG-2081		SG-2161
		DIL	RIL	DIL	RIL	DIL	RIL	DIL	RIL	RIL
Serial	Port	1	1	2	2	4	4	8	8	16
	Pin	DB9	RJ45	DB9	RJ45	DB9	RJ45	DB9	RJ45	RJ45
	Interface	RS232 (DTE)/RS422/RS485 (Echo, Non-Echo)								
	Protocol	COM Port Redirector (Virtual COM Port), TCP Server/Cilent, UDP Server/Cilent, TCP Broadcast/Multiplex, MODBUS ASCII/RTU								
	Speed	max. 921.6Kbps								
Ethernet	Ethernet	10/100Mbps (Auto-MDIX)								
	Protocol	TCP, UDP, Telnet, ICMP, DHCP, TFTP, HTTP, IPv4, SNMP, SSH, FTP, MODBUS TCP								
SW	OS	Embedded Linux								
	Management Tool	COM Port Redirector, PortView, TestView, SGConfig, Web, SNMP								
	Configuration	Web, SSH, Telnet, SGConfig								
	Security	SSH								
	OS Support	Windows 7 or above Windows Server 2008 or above								
HW	LED	RDY, TX, RX				RDY, TX, RX, WAN, LAN				
	Power	12 ~ 48VDC								
	Dimension (W x L x H)	75.8 x 83.6 x 28.4mm	101.7 x 83.6 x 26.8mm	237.0 x 143.6 x 48.7mm						
		2.99 x 3.3 x 1.12in	4 x 3.3 x 1.06in	9.33 x 5.6 x 1.92in						
	Weight	163.8g	166.6g	199.4g	191.1g	963.8g	955.4g	1,029.6g	966.8g	1,048.9g
		0.361lb	0.367lb	0.439lb	0.421lb	2.124lb	2.106lb	2.269lb	2.131lb	2.312lb
Operating Temperature	-40 ~ 85°C									
	-40 ~ 185°F									

Serialcard

1/2/4/8/16/32ports RS232 or RS422/485 PCI Serialcard

1/2/4/8/16/32ports RS232 or RS422/485 PCI Express Serialcard



	Multi-1	Multi-2		Multi-4		Multi-8			Multi-16	Multi-32
Port	1	2		4		8			16	32
Board Connector	Standard (DB9)	Standard (DB9)	Split Cable Standard (DB9)	Extension Cable with Panel	Split Cable Standard (DB9)	Pin Header	Extension Cable with Panel	Split Cable Standard (DB9)	Pin Header	Extension Cable with Expansion Panels
Interface	RS232 or RS422/RS485									
Speed	max. 921.6Kbps									
Protection	±15kV									
Flow Control	RTS/CTS, XON/XOFF									
Auto Toggling	Supported									
OS	Windows 7 or above Windows Server 2008 or above Linux									
Utility	TestView									
Controller	SB16C1052PCI			SB16C1054PCI		SB16C1058PCI			SB4002A, SB16C1058	
Cable	-	-	DB25 to DB9 cable	DB44 to Panel Cable	DB44 to DB9 Cable	-	DB44 to Panel Cable	DB62 to DB9 Cable	-	DB44 to Panel Cable
Operating Temperature	0 ~ 50°C 32 ~ 122°F									

Semiconductor

UART controller

PCI controller

PCI UART controller

SYSTEMBASE manufactures and implements essential controller chips to its own products. The products by SYSTEMBASE are equipped with our own designed UART, PCI and PCI Express controllers.

SYSTEMBASEは製品のシリアル通信の基盤となる通信コントローラ半導体を設計開発し製造しており、製品には自社のUART/PCI/PCIeコントローラを採用しています。

World's Largest FIFO Memory

With 256-btyle FIFO memory per I/O channel, it prevents overrun errors and reduces CPU load.

各I/Oチャンネルに256バイトのFIFOメモリを備え、オーバーランエラーを防ぎCPU負荷を低減します。

Auto Flow Control

When data exceeds receive buffer limit, it automatically sends signals to control the data flow to prevent data loss.

受信バッファを超えるデータを受け取った際に、自動的にデータフローを制御する信号を送ることでデータ消失を防止します。

Auto Toggling

BUS from I/O connections are automatically switched ON/OFF to prevent signal crashes and reduce CPU load.

RS422やRS485のI/Oバスは自動的にON/OFF切替えされ、信号衝突を防止しCPU負荷を低減します。

Industrial Grade

Supports industrial grade operating temperature -40 ~ 85 °C (-40 ~ 185°F)

-40 ~ 85°Cまでの動作環境温度条件で産業用途に対応します。

		Type				Package								
		FIFO	Auto Toggle	Serial Port	Parallel Port	QFN	LQFP	TQFP	LQFP	TQFP	PLCC	TQFP	TQFP	FBGA
		68	64	80	128	128	68	144	176	176				
UART	SB16C554A	16	X	4	-	●	●	●	-	-	●	-	-	-
	SB16C1054	256	○	4	-	-	-	●	-	-	-	-	-	-
	SB16C1058	256	○	8	-	-	-	-	●	●	-	-	-	-
PCI	SB4002A	-	-	-	-	-	-	-	-	-	-	-	●	-
PCI+UART	SB16C1052PCI	256	○	2	-	-	-	-	-	●	-	-	-	-
	SB16C1053APCI	256	○	2	1	-	-	-	-	●	-	-	-	-
	SB16C1054PCI	256	○	4	-	-	-	-	-	-	●	-	●	-
	SB16C1058PCI	256	○	8	-	-	-	-	-	-	-	-	●	●

Semiconductor

UART

SB16C554A



- Quad UART with 16 Byte TX/RX FIFOs
- 16 Byte Tx/Rx FIFO
 - Maximum Transfer Rate: 5.3Mbps
 - HW Flow Control (Auto-RTS and Auto-CTS)
 - Pin-to-pin compatible with TI TL16C554A

Part Number	SB16C554A-TQ	SB16C554A-LQ	SB16C554A-PL	SB16C554A-FN
Package	80-pin TQFP	64-pin LQFP	68-pin PLCC	68-pin QFN
Operating Temperature	-20 ~ 85°C (-4 ~ 185°F)			

SB16C1054



- Quad UART with 256 Byte TX/RX FIFOs
- Four SB16C1050 UART Core with 256 Byte Tx/Rx FIFO
 - Provides Auto Toggling Function for RS422 and RS485 Bus Auto Control
 - Maximum Transfer Rate: 5.3Mbps
 - Supports Global Interrupt and able to Process Interrupt Vector
 - HW, SW Flow Control (Auto-RTS, Auto-CTS and Xon/Xoff)
 - Pin-to-pin compatible with TI TL16C554A

Part Number	SB16C1054-TQ
Package	80-pin TQFP
Operating Temperature	-40 ~ 85°C (-40 ~ 185°F)

SB16C1058



- Octal UART with 256 Byte TX/RX FIFOs
- Eight SB16C1050 UART Core with 256 Byte Tx/Rx FIFO
 - Provides Auto Toggling Function for RS422 and RS485 Bus Auto Control
 - Maximum Transfer Rate: 5.3Mbps
 - Supports Global Interrupt and able to Process Interrupt Vectors
 - HW, SW Flow Control (Auto-RTS, Auto-CTS and Xon/Xoff)
 - Expandable up to 32 ports without any Glue Logics in the MIO Bus

Part Number	SB16C1058-LQ
Package	128-pin LQFP (14x14)
Operating Temperature	-40 ~ 85°C (-40 ~ 185°F)

PCI

SB4002A



- PCI to Local Bus Bridge Controller
- Connects Local Legacy Bus and PCI Bus
 - Supports 33/66MHz PCI 32 bit Bus
 - Supports ISA like Local Legacy Bus (Maximum Transaction Speed 66MHz)
 - Supports Maximum 264MB PCI Burst Transfer
 - Supports CompactPCI, and CompactPCI Hot Swap

Part Number	SB4002A-TQ
Package	176-pin TQFP
Operating Temperature	-40 ~ 85°C (-40 ~ 185°F)

PCI UART

SB16C1053APCI



- PCI to Dual UART and Single-Parallel with MIO Bus Bridge Controller
- Built-In two improved UART with 256 Byte FIFO and 9 bit Communication
 - Maximum Serial Speed: 921.6kbps
 - Provides Auto Toggling Function for RS422 and RS485 Bus Auto Control
 - One IEEE 1284 Compliant Parallel Port
 - SPP/Nibble/Byte/EPP/ECP modes in Parallel Port
 - 3.3V Operation4A

Part Number	SB16C1053APCI-TQ
Package	128-pin TQFP
Operating Temperature	-40 ~ 85°C (-40 ~ 185°F)

SB16C1052PCI



- PCI to Dual UART with 256 Byte FIFO Bridge Controller
- Two SB16C1050 UART Core with 256 Byte Tx/Rx FIFO
 - PCI Local Bus Specification 2.3 Compliant
 - Supports 33/66MHz PCI 32 bit Bus
 - Provides Auto Toggling Function for RS422 and RS485 Bus Auto Control
 - HW, SW Flow Control (Auto-RTS, Auto-CTS and Xon/Xoff)

Part Number	SB16C1052PCI-TQ
Package	128-pin TQFP
Operating Temperature	-40 ~ 85°C (-40 ~ 185°F)

SB16C1054PCI



- PCI to Quad UART with 256 Byte FIFO Bridge Controller
- Four SB16C1050 UART Core with 256 Byte Tx/Rx FIFO
 - PCI Local Bus Specification 2.3 Compliant
 - Supports 33/66MHz PCI 32 bit Bus
 - Zero-Wait PCI Conversion and 24ns UART Response Time for IOR and IOW
 - Provides Auto Toggling Function for RS422 and RS485 Bus Auto Control

Part Number	SB16C1054PCI-TQ, SB16C1054PCI-BG
Package	144-pin TQFP, 176-pin FBGA
Operating Temperature	-40 ~ 85°C (-40 ~ 185°F)

SB16C1058PCI



- PCI to Octal UART with 256 Byte FIFO Bridge Controller
- Eight SB16C1050 UART Core with 256 Byte Tx/Rx FIFO
 - PCI Local Bus Specification 2.3 Compliant
 - Supports 33/66MHz PCI 32 bit Bus
 - Zero-Wait PCI Conversion and 24ns UART Response Time for IOR and IOW
 - Provides Auto Toggling Function for RS422 and RS485 Bus Auto Control

Part Number	SB16C1058PCI-TQ, SB16C1058PCI-BG
Package	176-pin TQFP, 176-pin FBGA
Operating Temperature	-40 ~ 85°C (-40 ~ 185°F)

RS232 Isolator

Provides high performance and reliability by reducing failures or breakdowns through the built in protection against noise and surge incoming along the RS232 line.

全てのRS232信号を絶縁することで、信号線を通じて侵入するノイズやサージによる通信機器の破損や動作不良を防ぎ、信頼性の高い安定した通信を確保します。

Surge Protector Gender Changer

Increases the utility of the DB9 products used in various industrial fields, also increasing the utilization of products with options supplying power through DB9.

産業用途で幅広く利用されるDB9コネクタを持つシリアル通信機器の接続性を改善し利便性を高めながら、DB9端子からの電源供給も可能にします。



		BASSO-1010D2/ISO	CS-99/P-G
Connector	1st	DB9 Female	
	2nd	DB9 Male	
Function	Protection	±3kVrms Digital Isolation IEC 61000-4-2(ESD) ±30kV IEC 61000-4-4(EFT) IEC 61000-4-5(Surge) 350W	1:1 Connection Power Connection (Pin No. 4, 7, 9) Alter Connection (Pin 9 4) DC-Jack (Inner 2.1mm, Outer 5.5mm) Terminal block (Pitch 5mm)
	Allowable Power	DB9 Female: 250V/1.5A DB9 Male: 250V/1.5A	
	Compatibility	RS232	General-Purpose
HW	Dimension (W x L x H)	34.9 x 77.4 x 16.5mm 1.37 x 3.05 x 0.65in	70.6 x 30.8 x 21mm 2.78 x 1.21 x 0.83in
	Weight	32.5g 0.071lb	27g 0.059lb
	Operating Temperature	-40 ~ 85°C	
		-40 ~ 185°F	

Gender Changer

- DB9 Male/Female to 5/6pin Terminal Block
5pin terminal block converter with surge protection
- DB9 Female to 8/9pin Terminal Block
Screwless 9pin terminal block converter with surge protection

When using the serial communication in a variety of industrial equipment, sometimes it requires to use terminal block instead of d-sub connector. In this case the user would have to make a separate cable for the serial port. SYSTEMBASE gender changers are products designed to solve such inconvenience.

シリアル通信に対応したさまざまな産業用機器を導入する際には、D-Subコネクタやターミナルブロックを使用することがあり、専用のケーブルを製作するなどの対応が必要となります。SYSTEMBASEのジェンダーチェンジャーは、バラ線の接続性に優れた専用ターミナルブロックを搭載して、配線接続にまつわる利便性向上を目的に設計された製品です。

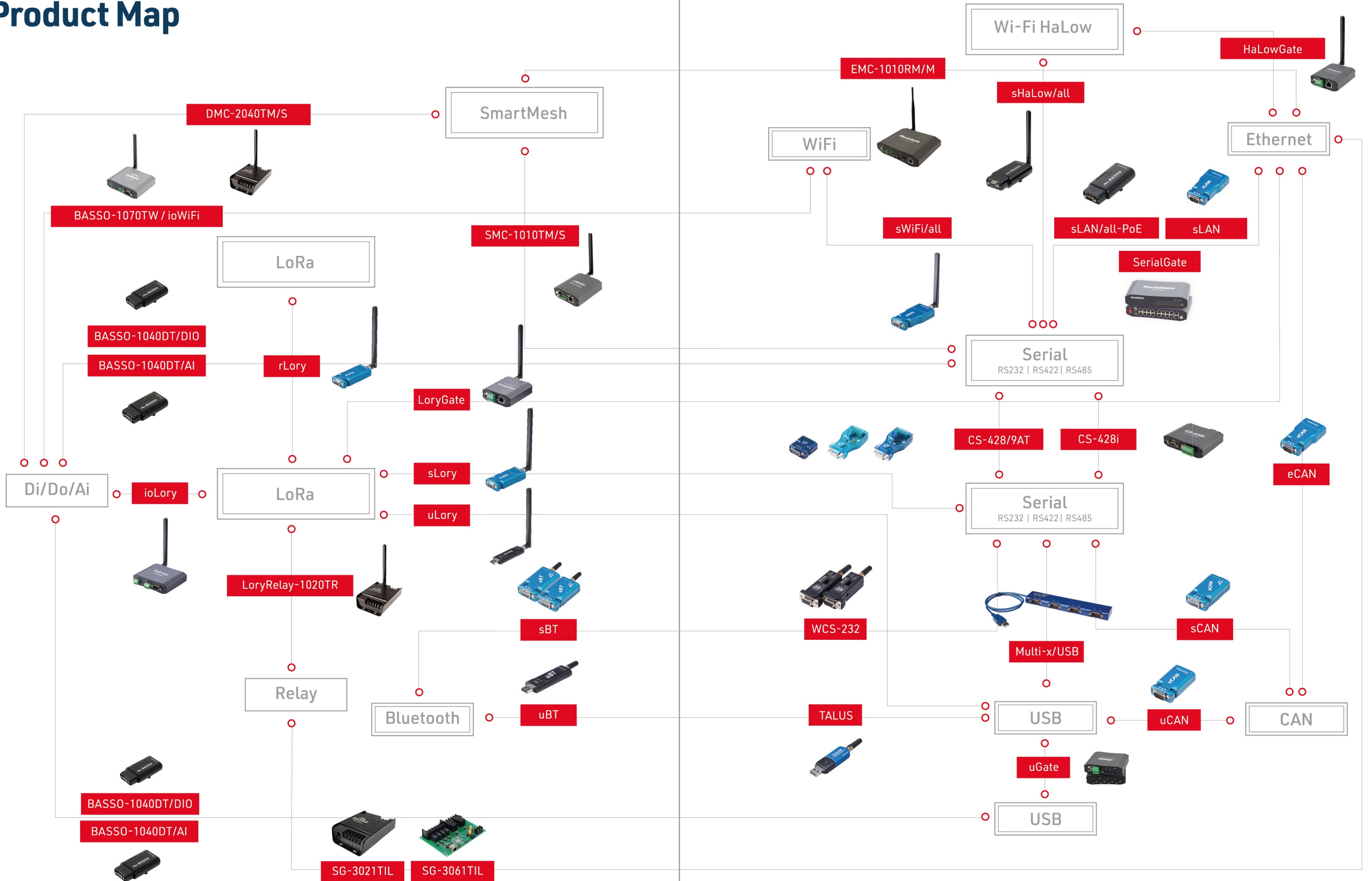


		CS-95/M	CS-95/F	CS-95/F-S	CS-95/F-S-C
Connector	1st	DB9 Male	DB9 Female	DB9 Female	DB9 Female
	2nd	Terminal Block 5 Pin	Terminal Block 5 Pin	Terminal Block 5 Pin	Terminal Block 6 Pin
	Recommended Cable Standard	Terminal Block: 16 ~ 26 AWG			
Function	Protection	-		IEC 61000-4-2(ESD) ±30kV IEC 61000-4-4(EFT) IEC 61000-4-5(Surge) 350W	IEC 61000-4-2(ESD) ±30kV IEC 61000-4-4(EFT) IEC 61000-4-5(Surge) 500W
	Allowable Power	DB9 Male: 250V/1.5A Terminal Block: 300V/10A	DB9 Female: 250V/1.5A Terminal Block: 300V/10A		
	Compatibility	SYSTEMBASE only			
HW	Dimension (W x L x H)	32 x 22 x 12mm 1.26 x 0.87 x 0.47in	32 x 22 x 12mm 1.26 x 0.87 x 0.47in	22 x 32 x 12mm 0.87 x 1.26 x 0.47in	35.9 x 34.4 x 16.5mm 1.41 x 1.35 x 0.65in
	Weight	21g 0.046lb	21g 0.046lb	19g 0.041lb	37g 0.081lb
	Operating Temperature	-40 ~ 85°C			
		-40 ~ 185°F			



		CS-99/M	CS-99/F	CS-99/F-S	CS-88
Connector	1st	DB9 Male	DB9 Female	DB9 Female	RJ45 Jack
	2nd	Screwless Terminal Block 9 Pin	Screwless Terminal Block 9 Pin	Screwless Terminal Block 9 Pin	Terminal Block 8 Pin
	Recommended Cable Standard	Terminal Block: 20 ~ 26 AWG			Terminal Block: 16 ~ 26 AWG
Function	Protection	-		IEC 61000-4-2(ESD) ±30kV IEC 61000-4-4(EFT) IEC 61000-4-5(Surge) 350W	-
	Allowable Power	DB9 Male: 250V/1.5A Terminal Block: 150V/2A	DB9 Female: 250V/1.5A Terminal Block: 150V/2A		RJ45 Jack: 125V/1.25A Terminal Block: 150V/2A
	Usage	General-Purpose			
HW	Dimension (W x L x H)	35 x 42 x 19mm 1.38 x 1.65 x 0.75in	35 x 42 x 19mm 1.38 x 1.65 x 0.75in	35 x 42 x 19mm 1.38 x 1.65 x 0.75in	150mm 5.91in
	Weight	21g 0.046lb	21g 0.046lb	19g 0.041lb	20g 0.044lb
	Operating Temperature	-40 ~ 85°C			
		-40 ~ 185°F			

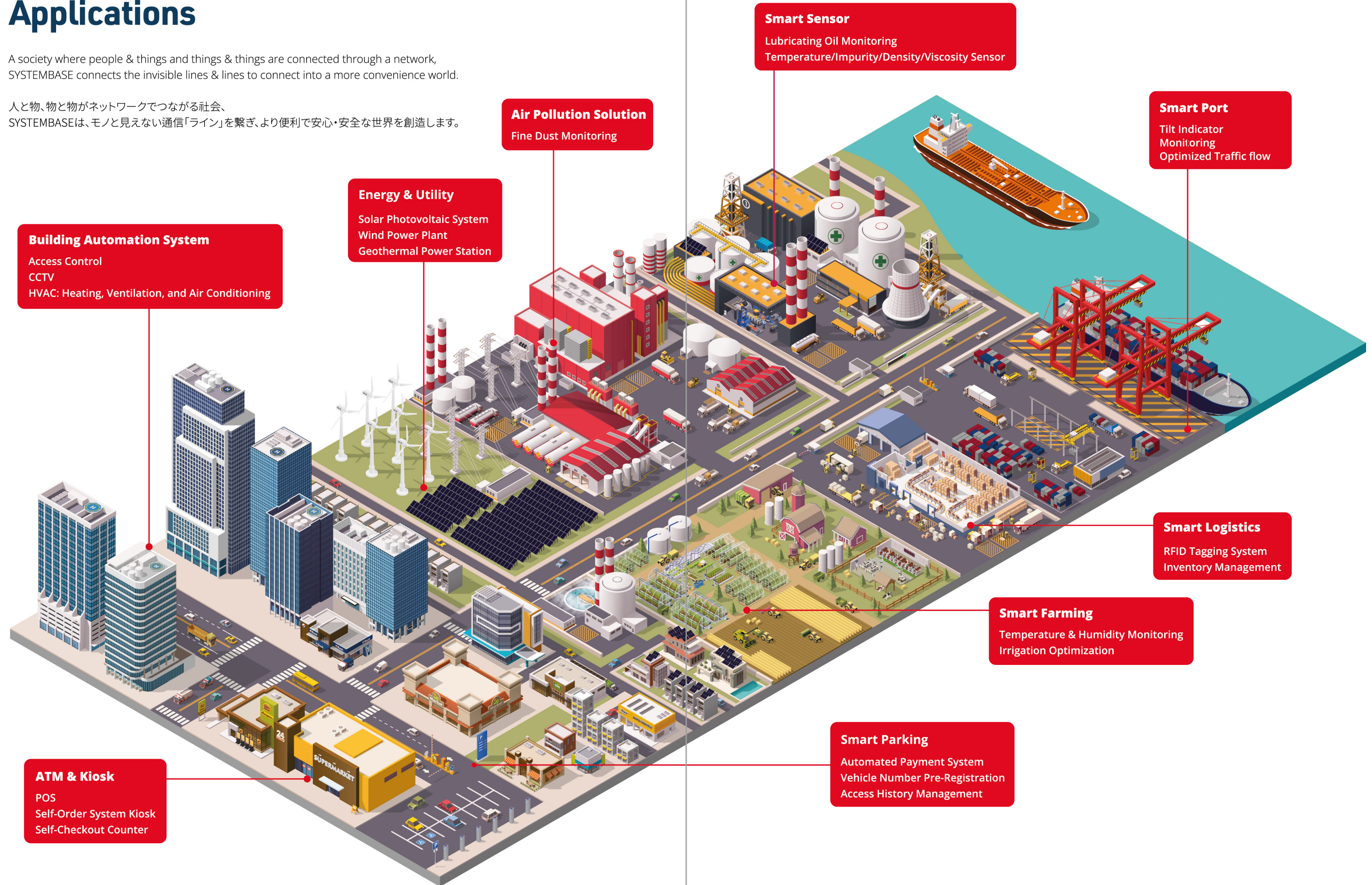
Product Map



Applications

A society where people & things and things & things are connected through a network, SYSTEMBASE connects the invisible lines & lines to connect into a more convenience world.

人と物、物と物がネットワークでつながる社会、SYSTEMBASEは、モノと見えない通信「ライン」を繋ぎ、より便利で安心・安全な世界を創造します。



Building Automation System
Access Control
CCTV
HVAC: Heating, Ventilation, and Air Conditioning

Energy & Utility
Solar Photovoltaic System
Wind Power Plant
Geothermal Power Station

Air Pollution Solution
Fine Dust Monitoring

Smart Sensor
Lubricating Oil Monitoring
Temperature/Impurity/Density/Viscosity Sensor

Smart Port
Tilt Indicator Monitoring
Optimized Traffic flow

Smart Logistics
RFID Tagging System
Inventory Management

Smart Farming
Temperature & Humidity Monitoring
Irrigation Optimization

Smart Parking
Automated Payment System
Vehicle Number Pre-Registration
Access History Management

ATM & Kiosk
POS
Self-Order System Kiosk
Self-Checkout Counter