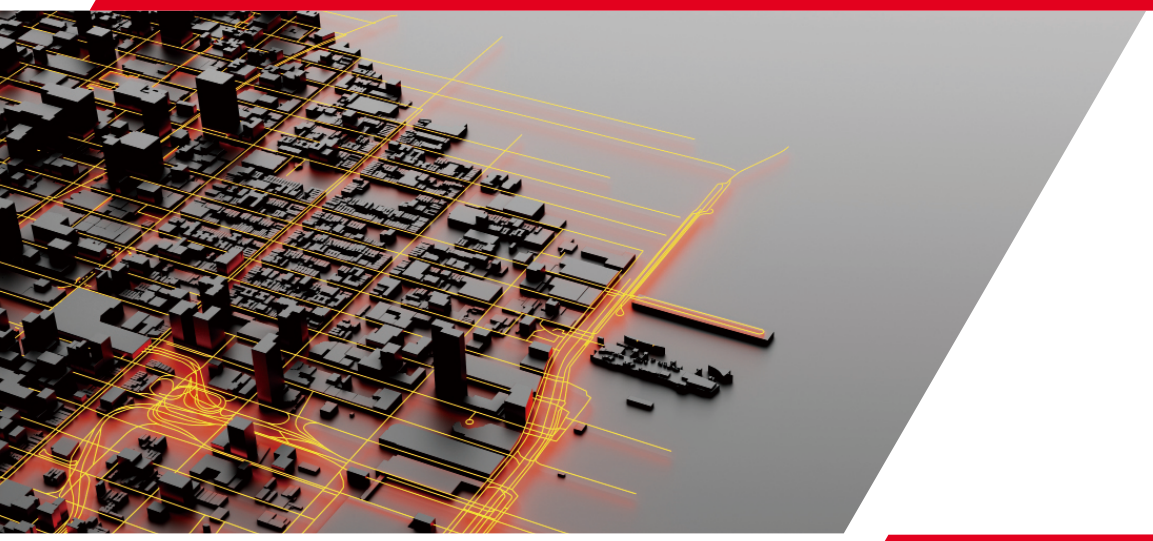


Advance the Future,
Expand the Possibilities

Industrial Connectivity and Networking Solutions

SYSTEMBASE

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。
独創的な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

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.

WARRANTY 5 YEARS A/S SERVICE

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.

CERTIFIED

International Standard Certification

ISO KC CE FC RoHS

INDEX

SYSTEMBASE

Semiconductor

Transceiver
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 Transceiver, 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Transceiver/UART/PCI/PCIeコントローラを採用しています。

World's Largest FIFO Memory

With 256-btye 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。

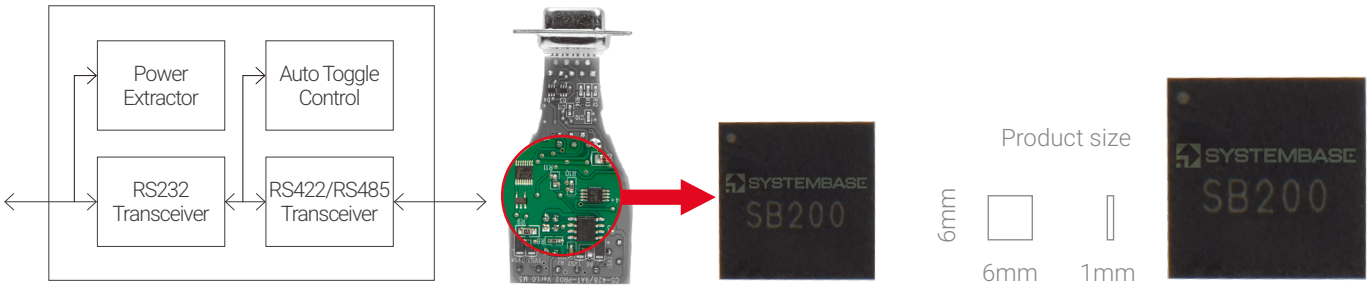
Industrial Grade

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	TQFP	TQFP	FBGA
						40	128	128	144	176	176
Transceiver	SB200	-	○	-	-	●					
	SB300	-	○	-	-	●					
UART	SB16C1058	256	○	8	-		●	●			
PCI	SB4002A	-	-	-	-					●	
PCI UART	SB16C1052PCI	256	○	2	-			●			
	SB16C1053APCI	256	○	2	1			●			
	SB16C1054PCI	256	○	4	-				●		●
	SB16C1058PCI	256	○	8	-					●	●

SB200

RS232 to RS422/RS485 Serial Converting Transceiver

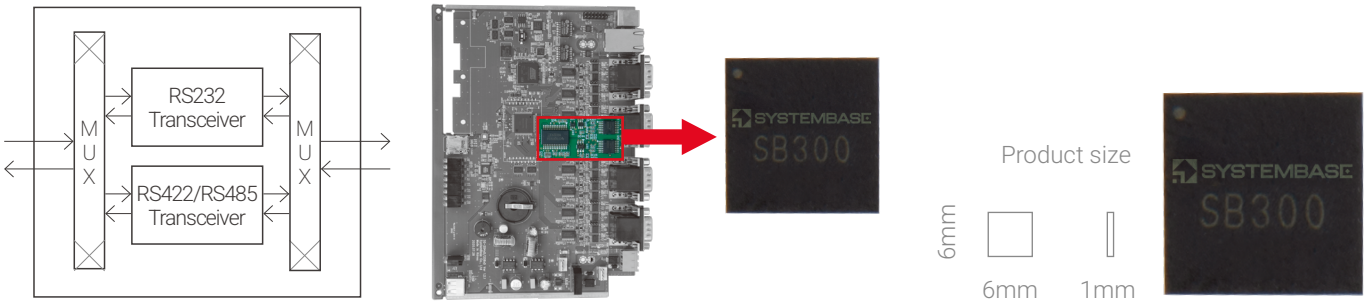


The serial converter chip, SB200 consists of a RS232 transceiver, two RS485/RS422 transceivers and a port power extractor. SB200 converts RS232 signal to RS422/RS485 signal, converts RS422/RS485 signal to RS232 signal. And it extracts power from the RS232 signal line and can be used it as power source. It is a very useful and convenient function for simple connections in varied applications. SB200 also has auto direction control function for RS422 multi-drop and RS485 network connections.

To use SB200 you can make the world's smallest serial converter. It is a fast and efficient solution to overcome the distance limitations of RS232 or to connect to industrial devices with an RS422/RS485 interface. SB200 doesn't require additional software for operating. With an easily accessible DIP switch you can configure the interface for RS422 or RS485.

SB300

RS232/RS422/RS485 Multi-Protocol Transceiver



SB300 is an advanced multi-protocol transceiver supporting RS232, RS422 and RS485 serial standards in a QFN-40 package. Especially It supports auto direction and manual control function for RS422 and RS485 networks. SB300 with integrated termination resistor and four configuration modes support to be used over a single cable or connector with no additional switching components.

Semiconductor

Transceiver

SB200

RS232 to RS422/RS485 Converting Transceiver

- Supports communication speeds up to 1Mbps
- Internally equipped with an On/Off switchable 120Ω termination resistor
- Features Port Powered functionality that supplies power through TXD/RTS/DTR without external power
- External power supply of DC 9V to 12V can be connected
- Includes ESD protection for communication signal lines
- Provides TXD/RXD LED driving functionality without additional circuitry

Part Number	SB200
Package	40-pin QFN (6x6)
Operating Temperature	-40~85°C(-40~185°F)

SB300

RS232/RS422/RS485 Multi-Protocol Transceiver

- Supports communication speed up to 1Mbps (RS232)
- Supports RS232 Full Modem signals (3 Drivers, 5 Receivers)
- Supports communication speed up to 10Mbps (RS422/RS485)
- Can selectively utilize RS422 (Full) or RS485 (Half)
- Supports slew rate control function to limit EMI
- Equipped with an internally switchable 120Ω termination resistor
- Built-in ESD protection for communication signal lines
- 3.3V or 5V Single Supply Operation

Part Number	SB300
Package	40-pin QFN (6x6)
Operating Temperature	-40~85°C(-40~185°F)

UART

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
Package	144-pin TQFP
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)

Bluetooth

RS232 to Bluetooth

			Parani-SD1000
Wireless	Description		RS232 to Bluetooth
	Standard		Bluetooth 2.0 + EDR
	Distance		max. 100m
	Frequency (may vary from country)		2.4GHz
	RF Power(EIRP) (may vary from country)		max. 18dBm
	Receive Sensitivity (may vary from mode)		max. -88dBm
	Modulation (may vary from mode)		GFSK
	Bluetooth Chipset	Protocol	BC417/Qualcomm
		Memory	48kB/8Mb
		HW Security	SPP
	Speed		max. 3Mbps
Serial	Port		1(DCE)
	Interface		RS232
	Protocol		SPP
	Speed		max. 921.6Kbps
	Signal	RS232	TXD, RXD, RTS, CTS, DTR, DSR
		RS422	-
		RS485	-
	Data bit		8
	Stop bit		1, 2
	Parity		None, Even, Odd
	Flow Control		RTS/CTS
SW	Management Tool/ Configuration		Parani win, Parani win multi
	OS Support		Windows 7 or above Windows Server 2008 or above
HW	LED		Mode, Connect, SRL(RX/TX)
	Power		5~12VDC
	Dimension (W x L x H)		76.0 x 31.0 x 16.0mm
			2.99 x 1.22 x 0.62in
	Weight		33g
			0.073lb
	Operating Temperature		-20~70°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	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	max. 921.6kbps	-	
		RS485	max. 921.6kbps	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		9~24VDC	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		190.5g	142g	607g(Antenna included)
			0.419lb	0.313lb	1.33lb(Antenna included)
	Humidity		5~95% non-condensing		
	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
USB to Wi-Fi HaLow
LAN to Wi-Fi HaLow

			BASSO-1070TW/ioWiFi	sWiFi/all	sHaLow/all	uHaLow	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	USB 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		Dipoe Antenna Avg 1.5dBi/ 2.4GHz, -0.7dBi/5GHz		Dipoe Antenna Avg 2.5dBi			
	Speed		max. 54Mbps		max. 15Mbps			
	Mode		Station, Pear to Pear		Station, Pear to Pear			
	Modulation		OFDM and so on					
Serial	Port		1(DTE)	1(DCE)		-		
	Interface		RS232(Console)/ RS485 (Terminal Block)	RS232/RS422/RS485		-		
	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	TCP Server/ Client, UDP	-	
	Speed		max. 921.6Kbps				-	
	Signal	RS232	TXD, RXD	TXD, RXD, RTS, CTS, DTR, DSR, DCD	TXD, RXD, RTS, CTS	TXD, RXD, RTS, CTS	-	
		RS422	-	TXD+, TXD-, RXD+, RXD-		-		
		RS485	TRXD+, TRXD-			-		
	Data bit		8	5, 6, 7, 8	8	8	-	
	Stop bit		1	1, 2	1	1	-	
	Parity		None, Even, Odd				-	
Network	Protocol		-				TCP, UDP, ICMP, DHCP, HTTP, IPv4	
	Ethernet		-				10/100Mbps (Auto-MDIX)	
SW	Utility		ioWiFiConfig	sWiFiConfig (Windows, Android)	HaLowConfig			
	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	5VDC	12~48VDC	
	Dimension (W x L x H)		101.8 x 82.6 x 26.7mm	40.9 x 90.1 x 16.5mm	75.8 x 82.6 x 28.4mm	25.1 x 89 x 11.5mm	75.8 x 82.6 x 28.4mm	170 x 122 x 40mm
			4.01 x 3.25 x 1.05in	3.55 x 1.61 x 0.65in	2.98 x 3.25 x 1.11in	0.98 x 3.50 x 0.45in	2.98 x 3.25 x 1.11in	6.69 x 4.80 x 1.57in
	Weight		230.7g	32.1g	175g	36g	170g	607g
			0.508lb	0.070lb	0.385lb	0.079lb	0.374lb	1.338lb
	Operating Temperature		-40~85°C					
			-40~185°F					

LoRa

RS232/RS422/RS485 to LoRa
USB to LoRa
Repeater/Relay
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					
Serial	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		-
	Signal	RS232	TXD, RXD, RTS, CTS, DTR, DSR	-	TXD, RXD	TXD, RXD, RTS, CTS, DTR, DSR, DCD	TXD, RXD	-
		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 Contol		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)
	OS support		Windows 7 or above, Windows Server 2008 or above					
	Encryption		-			SSH	-	
HW	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	19g	40.5g	205.5g	218.7g	135g
			0.089lb	0.041lb	0.089lb	0.453lb	0.482lb	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-ISO2	CS-428i
Serial	Description		RS232 to RS422/RS485			
			-		Digital-Isolated	
	Speed		max. 921.6Kbps			
	Distance	RS422/RS485	max. 1.2km			
	Connector	RS232	DB9 (DCE)			DB9(DCE/DTE)
		RS422/RS485	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/RS485)		10			32
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		20g	50g	50g	198g
			0.044lb	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	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-1/USB all-ISO

Multi-1/USB-C

Multi-1/USB

Multi-2/USB

Multi-4/USB

Multi-4U

Multi-8U

			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		Supoorted						
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	34g	40g	60g	105g	210g	340g
			0.070lb	0.074lb	0.088lb	0.132lb	0.231lb	0.462lb	0.749lb
	Cable Length		1,200mm	600mm				1,200mm	
			3.94ft	1.97ft				3.94ft	
	Operating Temperature		-40~85°C	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	
	Upstream Port	1	
	Protection	±4kV (Contact)	
		±8kV (Air)	
HW	Power (External)	12~48VDC	
	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	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
LAN to DIO

			BASSO-1040DT/DIO	BASSO-1040DT/AI	BASSO-1040UT/DIO	BASSO-1040UT/AI	BASSO-1040TL/DIO
Serial	Port		1		-		
	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		-		
	Protocol		Modbus RTU/ASCII				
USB	Port		-		1		-
	Interface		-		USB 2.0 (Virtual Com Port)		-
	Connector		-		Type A		-
Network	Port		-				1
	Connector		-				COM Port Redirector (Virtual COM Port) Modbus TCP RTU/ASCII TCP, UDP, ICMP, DHCP, IPv4
	Ethernet		-				10/100Mbps RJ45 Port x 1
DIO	I/O Select		2xDI+2xDO or 4xDI 4xDO(Selectable)	-	2xDI+2xDO or 4xDI 4xDO(Selectable)	-	2xDI+2xDO or 4xDI 4xDO(Selectable)
	Digital Input		4 channels (Dry&Wet Contact)	-	4 channels (Dry&Wet Contact)	-	4 channels (Dry&Wet Contact)
	Digital Input Mode		DI or Event Counter(1kHz)	-	DI or Event Counter(1kHz)	-	DI or Event Counter(1kHz)
	Digital Output		4 channels(Sink)	-	4 channels(Sink)	-	4 channels(Sink)
	Digital Output Mode		DO or Pulse Output(500Hz)	-	DO or Pulse Output(500Hz)	-	DO or Pulse Output(500Hz)
	Output Current Rating		500mA per channel	-	500mA per channel	-	500mA per channel
	Isolation		1500Vrms for 1minute	-	1500Vrms for 1minute	-	1500Vrms for 1minute
	Power		12~24V (Terminal Block)	-	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		5~24VDC
	LED		RDY, SRL, DIO1/3, DIO2/4	RDY, SRL, AI1/3, AI2/4	RDY, SRL, DIO1/3, DIO2/4	RDY, SRL, AI1/3, AI2/4	RDY, SRL, DIO1/3, DIO2/4
	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
RS232/RS422/RS485 to CAN-FD

		eCAN	sCAN	uCAN	uCAN Analyzer	sCAN/all
CAN	Description	Ethernet to CAN	RS232 to CAN	USB to CAN	USB to CAN Analyzer	RS232/RS422/RS485 to CAN-FD
	CAN Standard	CAN 2.0 A/B				CAN 2.0 A/B, CAN-FD
	Distance	max. 1km				
	Speed	max. 1Mbps				
	Signal	CAN_H, CAN_L, VDD, GND			CAN_H, CAN_L	CAN_H, CAN_L, GND, VDD+, VDD-
Network	Protocol	TCP, UDP, ICMP, DHCP, HTTP, IPv4	-			
	Ethernet	10/100Mbps	-			
Serial	Interface	-	RS232	-		RS232/RS422/RS485
	Speed	-	max. 460.8Kbps	-		max. 921.6Kbps
	Signal	-	TXD, RXD, RTS, CTS, DTR, DSR	-		RS232: TXD, RXD RS422: TXD+,TXD-,RXD+,RXD- RS485: TRXD+, TRXD-
	Data bit	-	8	-		7, 8
	Stop bit	-	1, 2	-		1, 2
	Parity	-	None, Even, Odd, Mark	-		None, Even, Odd
	Flow Control	-	RTS/CTS	-		-
USB	Interface	-		USB Type A		-
	Specification	-		USB 2.0, Full-Speed		-
SW	OS	RTOS	-			RTOS
	Management Tool/ Configuration	Web, eCANConfig, eCANView	CANView		uCANView	CANView(TBD)
	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	RDY, DATA, ERR
	Power	5VDC		5VDC (USB VBUS)	5VDC	5VDC
	Dimension (W x L x H)	40.9 x 74 x 16.5mm	34.9 x 67.1 x 16.5mm	64.3 x 34.9 x 16.5mm	40 x 80 x 23mm	54 x 72.0 x 28.4mm
		1.61 x 2.91 x 0.65in	1.37x 2.65 x 0.65in	2.53 x 1.37 x 0.65in	1.57 x 3.14 x 0.90in	2.12 x 2.83 x 1.11in
	Weight	33.9g	23.3g	26.1g	50g	90g
		0.074lb	0.051lb	0.057lb	0.110lb	0.198lb
	Operating Temperature	-40~85°C				
		-40~185°F				

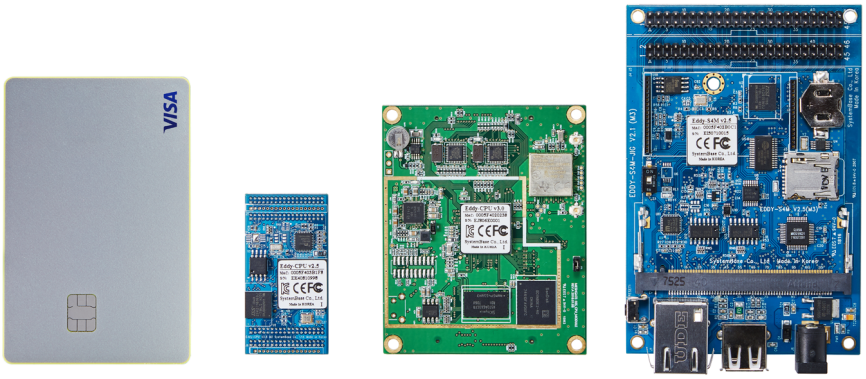
HubGate

USB to RS232/RS422/RS485
USB 3.0 Hub
LAN Switching Hub
Relay to Ethernet

		HG-1260
USB	Specification	USB 3.2 Gen 1×1(Formly USB 3.1 Gen 1 or 3.0)
	Interface	USB Type-A (Downstream)
		USB Type-B (Upstream)
	Downstream Port	10
	Upstream Port	1
	Protection	15kV ESD
	LED	PWR LED
Ethernet Switch	Port	5
	LAN	10/100/1000Mbps (Auto-MDIX)
	LED	Speed, Link/ACT
Serial	Port	8
	Interface	RS232/RS422/RS485
	Speed	max. 921.6Kbps
	Signal	RS232: TXD, RXD, RTS, CTS, DTR, DSR, DCD, RI
		RS422: TXD+, TXD-, RXD+, RXD-
		RS485: TRXD+, TRXD-
	Data bit	7, 8
	Stop bit	1. 2
	Parity	None, Even, Odd
	LED	TX, RX
Relay	Ports	2
	AC/DC	240VAC 2A / 30VDC 1A
	Protocol	Modbus RTU/ASCII
	LED	RDY, NO, NC
HW	Power (External)	12~48VDC
	Dimension (W x L x H)	430.0 x 180.0 x 44.0mm
		16.92 x 7.08 x 1.73in
	Weight	2,350g
		5.180lb
	Operating Temperature	-40~85°C
		-40~185°F

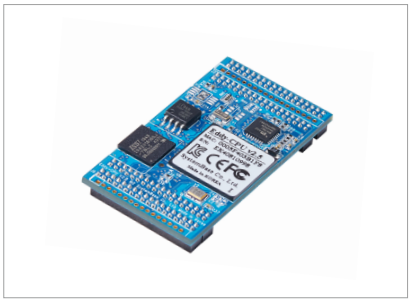
Embedded CPU module

ARM9 CPU
ARM Cortex-A8 CPU



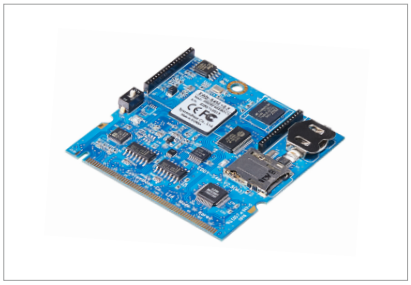
		Eddy-CPU v2.5	Eddy-S4M v2.5	Eddy-CPU v3.0
HW	Processor	ARM926EJ-S (400MHz)		ARM Cortex-A8 (1GHz)
	Memory	32MB SDRAM, 8MB Flash		512MB DDR3, 512MB NAND Flash
	External Interface	19 bits Address / 16 bits Data Bus	-	8 bits Address / 8 bits Data Bus
	GPIO	56	34	8
	Interface	ADC, SPI, TWI, USB 2.0, NAND 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



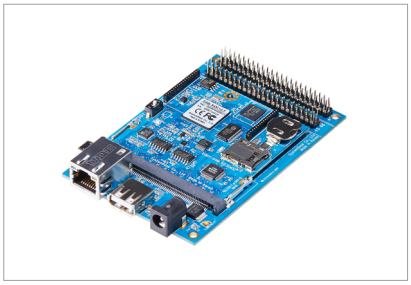
- ARM926EJ-S CPU, 8MB DATA Flash, 32/64MB SDRAM
- Pin Header Interface (144 Pins)
- 10/100 Ethernet PHY (Auto MDIX) and 4 UARTs
- Programmable GPIO (56 Pins)
- Supports TWI (I2C), SPI, MCI, 4Ch ADC
- 2 USB Hosts and 1 USB Device Port Provided
- Watchdog Timer
- Supports SNMP
- SDK and API for Developers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

Eddy-S4M v2.5



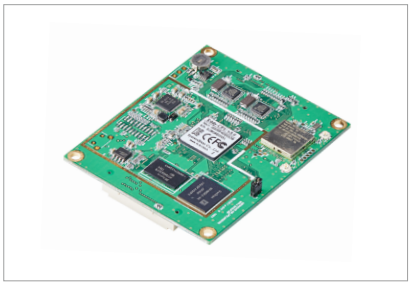
- ARM926EJ-S CPU, 8MB DATA Flash, 32MB SDRAM
- 3 USB 2.0 FS(12Mbps) Host
- 10/100Base-T with Auto MDI/MDIX
- MicroSD Support (Max. 16GB, SDHC Support)
- 2 RS232 & 2 RS422/RS485 (w/Auto Toggle)
- WDT & RTC with Battery(CR1220) Support
- Max. 34 Programmable GPIOs
- SDK and API for Developers Provided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





		SG-3021TIL	SG-3061TIL	SG-3011		SG-1161RIL/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
	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		COM Port Redirector (Virtual COM Port), TCP, UDP, Telnet, ICMP, DHCP, TFTP, HTTP, 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
	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		12~48VDC
	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	430.6 x 181 x 44.2mm
		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	16.95 x 7.12 x 1.74in
	Weight	135g	244g	32.1g	20.7g	2,480g
		0.297lb	0.537lb	0.070lb	0.045lb	5.467lb
	Operating Temperature	-40~85°C		-0~70°C		-40~85°C
		-40~185°F		32~158°F		-40~185°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 -40~85°C(-40~185°F)

1Port

DIL RIL

2Port

DIL RIL

4Port

DIL to DB9 RIL to RJ45

8Port

DIL RIL

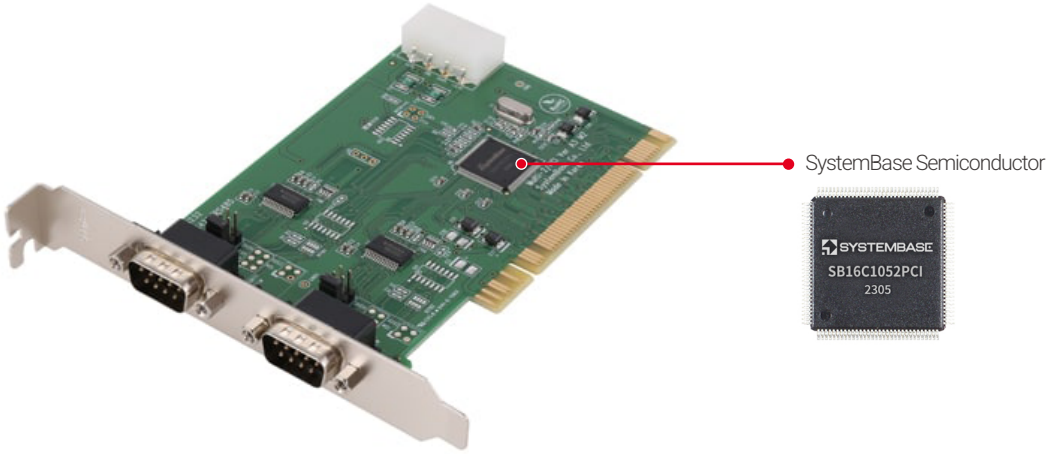
16Port

RIL

		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

1/2/4/8/16/24/32ports RS232 or RS422/RS485 PCI
1/2/4/8/16/24/32ports RS232 or RS422/RS485 PCI Express



		Multi-1	Multi-2		Multi-4		Multi-8			Multi-16	Multi-32
Serial	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									
SW	OS	Windows 7 or above, Windows Server 2008 or above, Linux									
	Utility	TestView									
HW	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									

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.

RS232アイソレーター

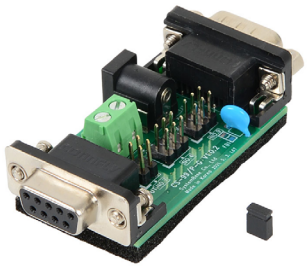
全てのRS232信号を絶縁することで、信号線を通じて侵入するノイズやサージによる通信機器の破損や動作不良を防ぎ、
信頼性の高い安定した通信を確保します。

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.

サージ保護ジェンダーチェンジャー

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)
	Power Rating	DB9 Female: 250V/1.5A DB9 Male: 250V/1.5A	
	Application	Universal(RS232)	Universal
HW	Dimension (W x L x H)	34.9 x 77.4 x 16.5mm	70.6 x 30.8 x 21mm
		1.37 x 3.05 x 0.65in	2.78 x 1.21 x 0.83in
	Weight	32.5g	27g
		0.071lb	0.059lb
	Operating Temperature	-40~85°C	
		-40~185°F	

Gender Changer

DB9 Male/Female to 5pin 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。

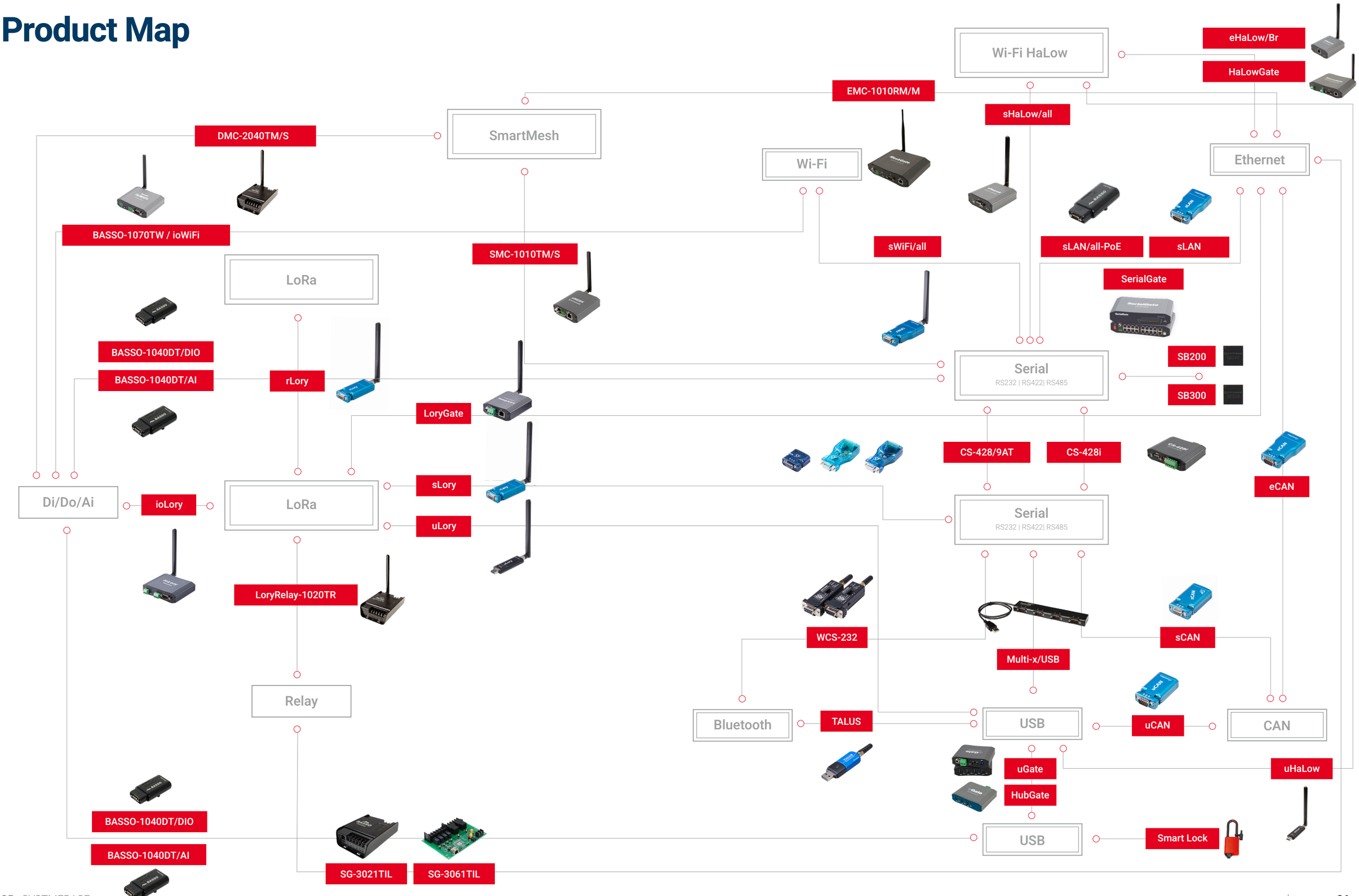


		CS-95/M	CS-95/F	CS-95/F-S
Connector	1st	DB9 Male	DB9 Female	DB9 Female
	2nd	Terminal Block 5 Pin	Terminal Block 5 Pin	Terminal Block 5 Pin
	Recommended Cable Standard	Terminal Block: 16~26 AWG		
Function	Protection	-		IEC 61000-4-2(ESD) ±30kV IEC 61000-4-4(EFT) IEC 61000-4-5(Surge) 350W
	Allowable Power	DB9 Male: 250V/1.5A Terminal Block: 300V/10A	DB9 Female: 250V/1.5A Terminal Block: 300V/10A	
	Usage	SYSTEMBASE only		
HW	Dimension (W x L x H)	32 x 22 x 12mm	32 x 22 x 12mm	22 x 32 x 12mm
		1.26 x 0.87 x 0.47in	1.26 x 0.87 x 0.47in	0.87 x 1.26 x 0.47in
	Weight	21g	21g	19g
		0.046lb	0.046lb	0.041lb
	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	35 x 42 x 19mm	35 x 42 x 19mm	150mm
		1.38 x 1.65 x 0.75in	1.38 x 1.65 x 0.75in	1.38 x 1.65 x 0.75in	5.91in
	Weight	21g	21g	19g	20g
		0.046lb	0.046lb	0.041lb	0.044lb
	Operating Temperature	-40~85°C			
		-40~185°F			

Product Map


Wi-Fi HaLow
eHaLow/Br
HaLowGate
EMC-1010RM/M
sHaLow/all
SmartMesh
DMC-2040TM/S
Wi-Fi
Ethernet
BASSO-1070TW / ioWiFi
sWiFi/all
sLAN/all-PoE
sLAN
SMC-1010TM/S
LoRa
SerialGate
BASSO-1040DT/DIO
BASSO-1040DT/AI
rLory
Serial
RS232 | RS422| RS485
SB200
SB300
LoryGate
CS-428/9AT
CS-428i
eCAN
Di/Do/Ai
ioLory
sLory
uLory
LoRa
Serial
RS232 | RS422| RS485
LoryRelay-1020TR
WCS-232
Multi-x/USB
sCAN
Relay
Bluetooth
TALUS
USB
uCAN
CAN
uGate
uHaLow
HubGate
BASSO-1040DT/DIO
BASSO-1040DT/AI
USB
Smart Lock
SG-3021TIL
SG-3061TIL

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。

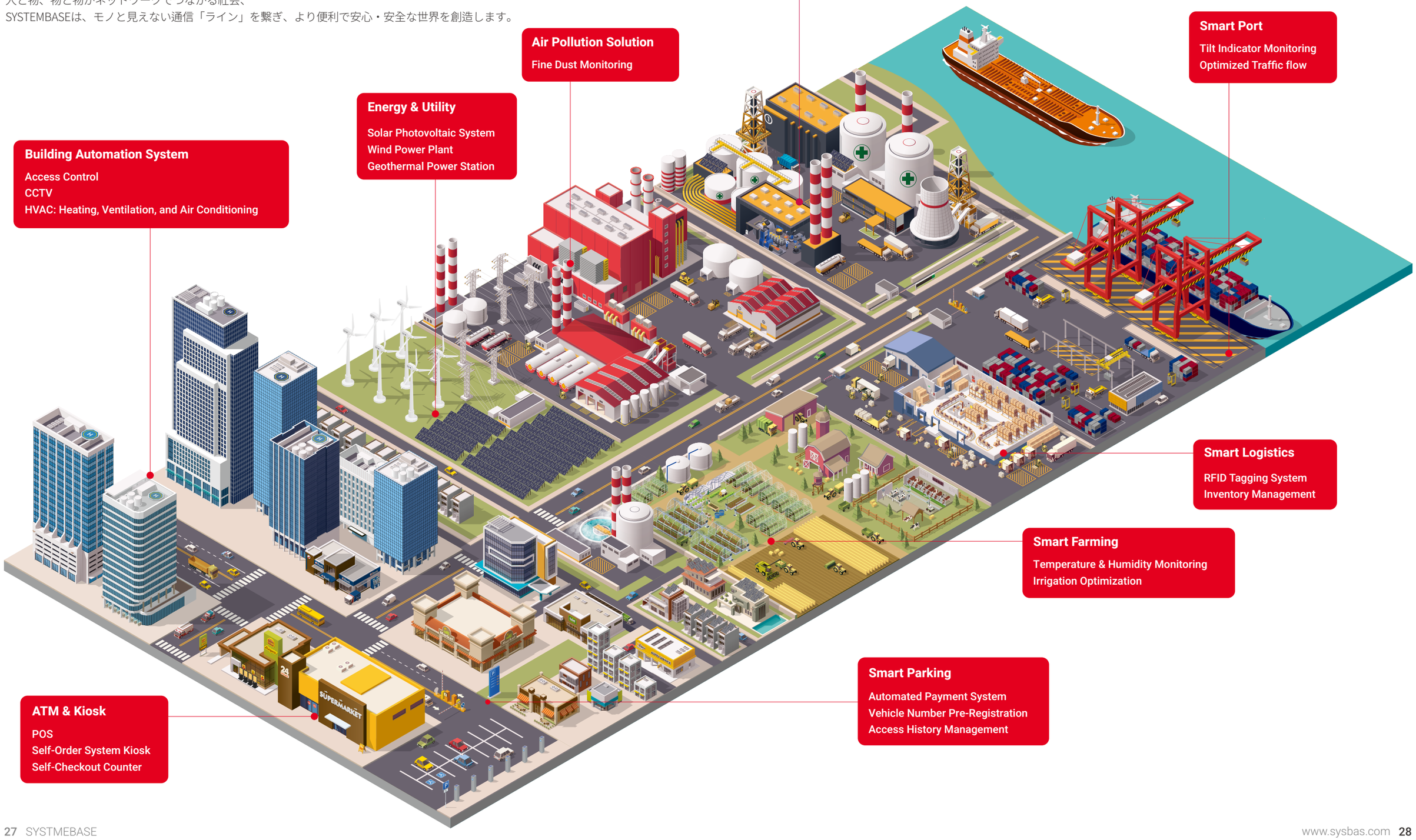
Smart Sensor
Lubricating Oil Monitoring
Temperature/Impurity/Density/Viscosity Sensor

Air Pollution Solution
Fine Dust Monitoring

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

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

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

Advance the Future, Expand the Possibilities

Ver. 2025

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