

Software Version : EasyBuilder Pro V6.03.02.393

Corrections

EasyBuilder Pro

1. [EBPro] Fixed an issue where compilation may fail when the project contains an erroneous GIF file.
2. [EBPro] Disabled monopoly setting of the default windows in project templates.
3. [EBPro] Fixed an issue where certain project file settings may not be saved correctly.
4. Fixed an issue where system registers that control the Device no Response window are ineffective.
5. [cMT] Fixed an issue where connection cannot be established successfully due to delayed reply to ALTER command by database server when using MariaDB 5.5.
6. [cMT] Fixed an issue where “already installed” message is returned by error when re-installing a printer driver after an unsuccessful attempt.
7. Fixed an issue where macro functions StringInsert and FLOAT2ASCII do not generate proper results.
8. Fixed an issue where certain calculations in macro may not be carried out correctly.
9. [EasyConverter] Fixed potential DLL security vulnerabilities.
10. Fixed an issue where connection to certain Ethernet type PLC by on-line simulation does not work since second try.

Drivers

1. [Modbus] Fixed an issue where setting 0x /1x address range leads to incorrect, shifted data read.
2. [OMRON EtherNet/IP (NJ/NX Series)] Fixed connection issue that occurs after disconnection.
3. [MODBUS] Added 3x_Qword, 4x_Qword addresses for 64-bit application.
4. [BACnet/IP] Fixed an issue where data cannot be accessed after a period of time under communication using COV mode.
5. [Schneider SoMachine M Series (Ethernet)] Added support for communication with M241 firmware v5 or later (PLC software used: Machine Expert).
6. [CODESYS V2 (Symbolic Addressing)] Added support for bit access of Word data

type.

- 7.** [Delta AS300 MODBUS RTU/ASCII][Delta AS300 MODBUS TCP/IP] Added L and L_Bit addresses.
- 8.** [Schneider MODBUS TCP/IP] Added %TM_V, %TM_P, %TM_Q, and %X addresses.
- 9.** Siemens S7-1200/1500 Series: Added support for importing .ap15_1, .ap16 files. (TIA Portal V15.1, V16)
- 10.** [Beckhoff TwinCAT PLC – Free Tag Names (Ethernet)] Fixed an issue where compilation error may occur due to incorrect parsing of address tags.
- 11.** [Beckhoff TwinCAT PLC – Free Tag Names (Ethernet)] Fixed an issue where incorrect value may be obtained from address tags using Modbus TCP/IP Gateway.
- 12.** [Beckhoff TwinCAT PLC – Free Tag Names (Ethernet)] Fixed an issue where String arrays cannot be read correctly.
- 13.** [XINJE XD Series (Ethernet)] Added new driver.
- 14.** [CODESYS V3 (Ethernet)] Fixed an issue where data types: LINT, ULINT, LREAL cannot be accessed properly.
- 15.** [EMERSON ROC800 Series – Free Tag Names] Fixed get tag and read issues with bit address tags.
- 16.** [KEYENCE KV-L20V/700/1000/3000/5000/7500/8000/Nano Series] [KEYENCE KV-L20V/700/1000/3000/5000/7500/8000/Nano Series (Ethernet)] Expanded R 、 R_word 、 FM 、 FM_Bit address ranges.

Software Version : EasyBuilder Pro V6.03.02.294

Corrections

EasyBuilder Pro

1. **[Macro]** Fixed an issue where RAND function does not output properly.
2. Fixed an issue where preloading fonts can make the program unable to start properly.
3. Fixed an issue where Modbus Server cannot read PLC data correctly.
4. Fixed an issue where device IP related system registers are incorrect when using Modbus Server (Ethernet interface).
5. (iE/XE/eMT) **[Event Display]** Fixed an issue where the incorrect elapsed time is displayed.
6. Fixed an issue where minor position adjustment of multiple selected objects using the arrow keys is impossible.
7. **[Data Transfer (Per-page)]** Fixed an issue where “0 is short of space” message shows when opening the settings window of this object.
8. **[Macro]** Fixed a number of compilation issues.

cMT Viewer

1. Fixed an issue where cMT viewer cannot connect to the device whose project file was compiled and downloaded using an earlier version of EasyBuilder Pro.

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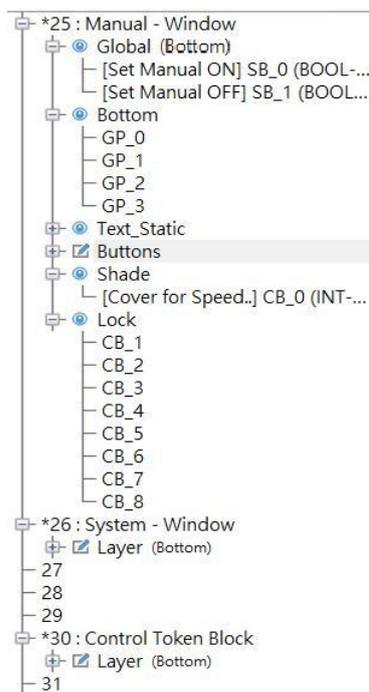
Supported Models

1. Added support for cMT-CTRL01.

New Features

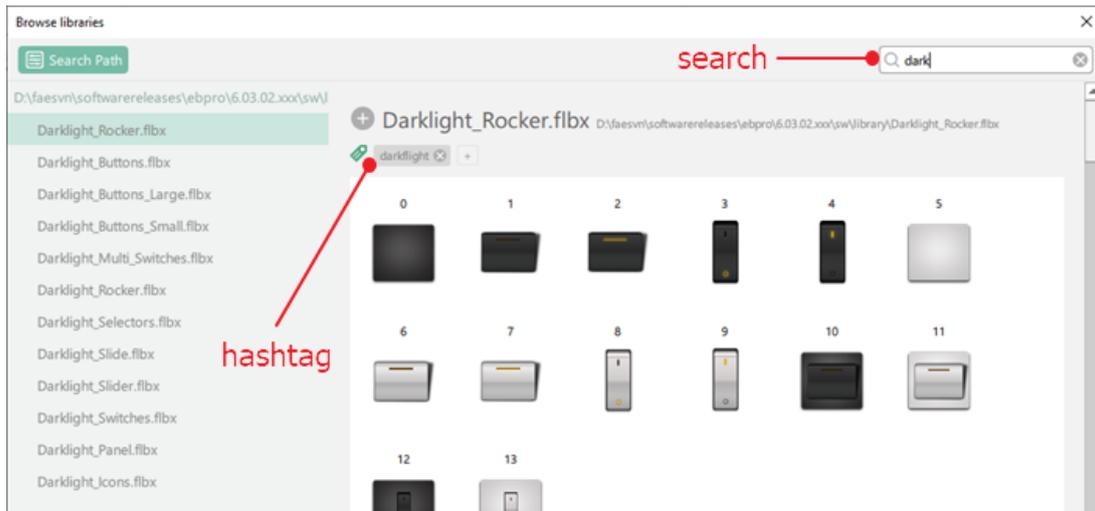
EasyBuilder Pro

1. Added support window layers, a way of organizing objects in a window. Having added layers to a window, objects can be placed within different layers as appropriate. Objects in selected layers can be displayed while those in other layers are invisible, which shall greatly facilitates the screen design process.



Window 25 in the screenshot above has six layers: Global, Bottom, Text_Static, Buttons, Shade, and Lock.

2. Expanded system picture library. New libraries include generic icons across multiple themes, industrial buttons and switches, P&ID symbols.....etc. See appendix 1 in this document for the new icons.
3. Added "Apply" button to the object property settings window. This button allows saving of the settings without having to close the window.
4. Added support for search function and the use of hashtag for the picture libraries in the Browse Libraries interface.

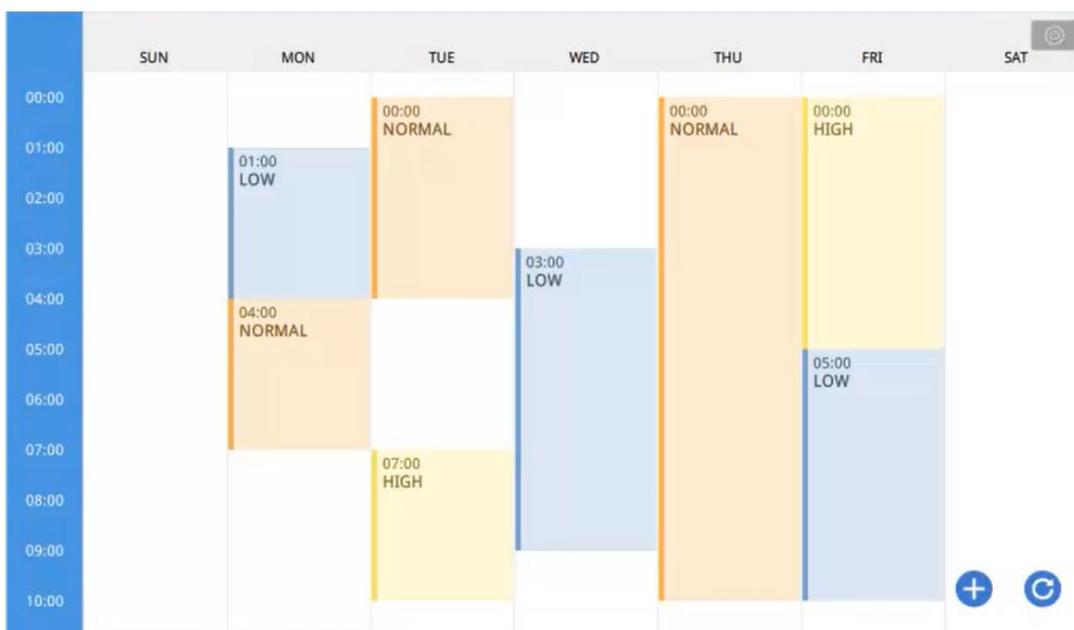


5. Added [Duplicate to Every State], [Duplicate to Every Language], and [Duplicate to Every State and Language] shortcut buttons into text settings in Home tab which can be used to duplicate the current text settings of the selected object to its other states or languages.
6. Moved settings relating to Recipe Database to the Data / History tab.

cMT Series

All features listed in this section is available exclusively for cMT series only.

1. Added support for 64-bit data type.
2. Added [**BACnet Schedule**] object. This feature is only applicable when using the [**BACnet/IP**] driver and it helps visualize and access schedule data in BACnet controller with a graphical UI.

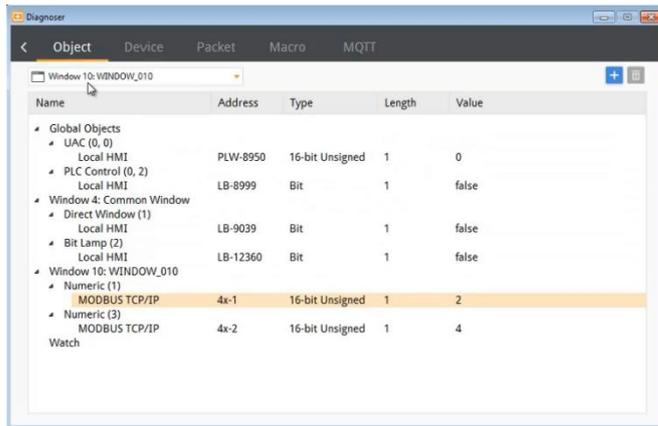


BACnet Schedule object as seen on HMI screen

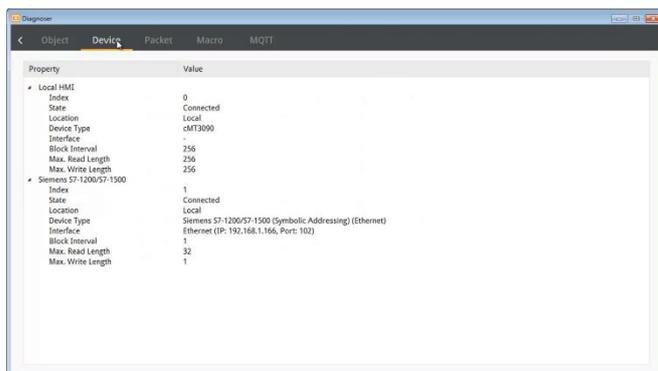
3. **[Recipe View]** Made whether or not to display specific columns configurable.
4. **[MQTT]** Added support for Google Cloud IoT Core.
5. **[MQTT]** Added support for using nested structure for Topic Subscriber under JSON (Advanced) mode.
6. **[MQTT]** Added support for automatically building data structure using JSON template under JSON (Advanced) mode.
7. **[Backup (per page)] [Backup (global)]** Added support for using SQL Query as data source.
8. **[Picture Viewer]** Added support for playing GIF-format images.
9. **[Option List]** Added row height setting.
10. **[Alarm Bar] [Alarm Display] [Event Display] [Event Bar Chart]** Added dynamic category range setting.
11. **[Action Trigger][Combo Button]** Added [Write constant string] option for Set Word action.
12. **[Action Trigger][Combo Button]** Added [File Transfer (FTP)] action.
13. **[Function key]** Added line feed option for keyboard input.
14. **[File Browser]** Added [Select] command.
15. **[System Parameter Setting]** Added [Trigger release actions anyway if touch moves out of the button] option.
16. Added system register LB-12665 : open USB/SD card download/upload dialog.
17. Added the following system registers relating to Wi-Fi hotspot feature:
 - LB-12666 : Disable/enable Wi-Fi Hotspot
 - LB-12667 : Refresh Wi-Fi Hotspot setting
 - LW-12006 (16 words) : Wi-Fi Hotspot SSID
 - LW-12022 (32 words) : Wi-Fi Hotspot password

Utility Manager

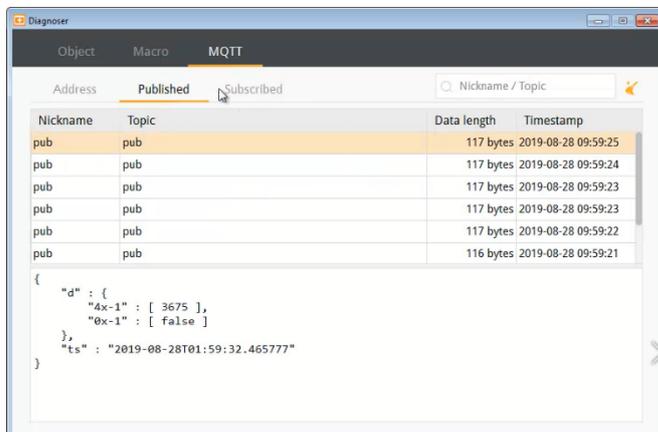
1. Added cMT Diagnoser. This tool can be used to access the data of HMI (cMT Series models, including Gateway models) and the PLC it's connected to, the communication status and details between HMI and PLC, and the communication status between HMI and MQTT Server.



View data



View communication status with PLC



View communication status with MQTT server.

Drivers

- Added support for 64-bit data type for the following PLC series:

[MODBUS]

[Rockwell CompactLogix/ControlLogix/Micro850]

[OMRON EtherNet/IP NJ/NX]

[OPTO22 CONT Protocol]

[EMERSON ControlWave]

[CODESYS V2/V3]

[Schneider SoMachine M]

[Beckhoff TwinCAT]

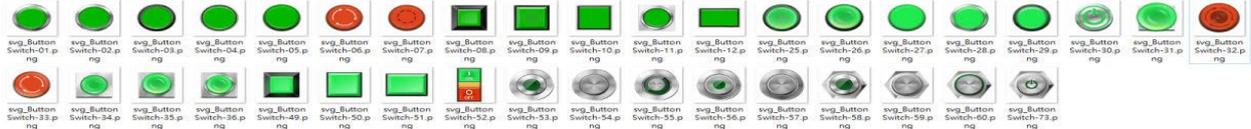
As noted above, 64-bit data type is available only for cMT series. It is not available for iE, iP, eMT, XE and mTV series.

Appendix 1: EasyBuilder Pro 6.03.02 new system picture libraries

Database	Alarm	Arrow	Communication	Link / Share	Cloud	Settings	File / Folder	Shape	Logistics	
Icon name	Icon name	Icon name	Icon name	Icon name	Icon name	Icon name	Icon name	Icon name	Icon name	
1	Stack	Error	AngleUp	edit	Multiple	DownloadFromCloud	Settings	Document	Round	Support
2	Stack Recovery	Stop	AngleDown	comment-dots	Single	UploadToCloud	Setting Error	Oval	Feedback	
3	Datasheet	Shutdown	AngleLeft	comments	CloudShare	SyncCloud	Setting Issue	Triangle	Destination	
4	Data Backup	Radio	AngleRight	vs	CloudSearch	UploadSuccess	Setting Caution	Isosceles triangle	Geolocation	
5	Data Import	Non-Displayable	AngleDoubleUp	paper-plane	Archivessue	UploadError	Setting Instrument	Square	Compass	
6	Data Export	Lock	AngleDoubleDown	network-wired	Firewall	SearchCloud	Setting Complete	Rectangle	Calendar	
7	Data Sharing	Unlock	AngleDoubleLeft	bell-slash	GlobalServer	CloudSecurity	Tool Box	Pentagon	AirFreight	
8	File	Danger	AngleDoubleRight	bell	Contribution	CloudComputing	Slider Left	Hexagon	CargoBarge	
9	Security	Bell	Up	envelope	Batch	CloudHosting1	Slider Right	Octagon	CargoTrain	
10	Storage	Light	Down	envelope-open	Peer-to-Peer	CloudHosting2	Time Setting	Star	WorldwideShipping	
11	Concurrency Control	Danger_Flammeable	Left	news	EthernetPort	CloudService5	Date Setting	Decagram	Delivery	
12	Sync	warning_Poison	Right	users	EthernetCable	CloudDrive	User Setting	Icosagram	FastDelivery	
13	MySQL	Question/Issue	CircleUp	user group1	Group	CloudNetwork	Image Setting	Variation	Delivered	
14	SQL	caution	CircleDown	user group2	Seam	CloudStorage	Windows Setting	Shield	DeliveryCancelled	
15	Microsoft Azure	Activation key	CircleLeft	user group3	Dispersion	LinkCopy	File Setting	Cross mark	Container	
16	IBM Bluemix	Electric Shock	CircleRight	rss feed	Set	LinkShare1	Transparency Setting	Check mark	Checklist	
17	Amazon Web Services	Breakdown	SquareUp	router	Sharing	LinkShare2	Archive File Setting	Folder	Weight	
18	Online Spreadsheets	Fix	SquareDown	device connection1	Upload	Delete	Transfer	Folder-Open	Dimension	
19	Create Database	Low Battery	SquareLeft	device connection2	Download	Lock	Collection	Save	TimeTracking	
20	Database User	Biohazard	SquareRight	device connection3	External	CloudSetting	Divergence	Sticky Note	Barcode	
21	Permission Management	Chemical	FromTop	device connection4	Internal	OtherSetting	Sync Setting	Create Document	DeliverySchedule	
22	Version Control	Pinch Hand	FromBottom	device connection5	Pin	BigData	Mixer	Upload Document	Tracking	
23	Quantization	Explosion	FromLeft	device connection6	ArchiveFile	CloudConnection	Code Setting	Classification	ParcelIn	
24	System Automation	Gas	FromRight	cloud upload	Exchange	GlobalNetwork	Encrypt	Trash Folder	ParcelOut	
25	Search Database	Geothermal	ToTop	cloud download	Link	SiteRecovery	Folder Setting	Upload Folder	Breakage	
26	Database Filter	Heavy	ToBottom	wifi cloud	Unlink	ContentDeliveryNetwork	Filter	Block Folder	ShelfCapacity	
27	Database Admin	LaserHazard	ToLeft	wifi HMI	Attach	SyncingWith Mobile	Comment	Lock Folder	Warehouse	
28	Local Network	Magnetism	ToRight	wifi device	Information	CloudAlert	More Tools	Unlock Folder	WarehouseManagement	
29	Server Error	Radioactive	RotateLeft	@	At		Find Tools	Sync Folder	ContainerCrane	
30	Scheduled Maintenance	Snow	RotateRight	Bluetooth	Bluetooth		Custom Tool bar	Alert Folder	Discrepancy	
31		UV	LoopRotation	Connecting	Connecting		Crop Marks	Corrupted File	DistributorCenter	
32		Alarm	LoopRotation2	Cycle	Cycle		Index	Approve File	OverflowShipment	
33		Bell	TurnUP	Part	Part		Help Center	Keypad		
34		Timer	TurnDown	Proportion	Proportion		Add file	Keypad		
35		Corrosive_Hazard	TurnLeft	Junction	Junction		Custom Color	Move Out		
36		High Noise Area	TurnRight	JunctionLock	JunctionLock		Tag	Move In		
37			4WayExpand				Internet Setting	Find Files		
38			4WayCompress					Favourite		
39			2WayExpand					Data Transmission		
40			2WayCompress					File Hyperlink		
41			2WayArrowH					Basic Settings		
42			2WayArrowV					Privacy Settings		
43			DoubleArrowH					Folder Info		
44			DoubleArrowV					File Info		
45			TriangleUP					Creation Shortcuts		
46			TriangleDown					Access Right		
47			TriangleLeft					Shared Folder		
48			TriangleRight					Access Failure Error		
								Unknown File		

Audio / video icon name	SD Card / USB icon name	Upload / Download icon name	Credential / Password icon name	Keyboard / call icon icon name	Barcode icon name	QR Code icon name	Address / Edit icon name	Email icon name	Notification icon name
1 Play	SDCardBlank	UploadArrow	Portrait	Keyboard	Barcode1	QRCode	AddressLabel	Mail	Dot
2 Stop	CapacityGB	UploadArrow	PortraitRecogniti	KeyboardExpan	Barcode2	Focus	AddressTagLib	OpenMail	WindowsNotif
3 Pause	NameSD	UploadBox	PortraitRecogniti	KeyboardColla	Barcode3	Confirm	AddressType	Letter	RectangularD
4 Backward	SDCardWiFi	DatabaseUploa	PortraitRecogniti	WifiKeyboard	BarcodeScan	Error	AddressType	Reply	SquareDialog
5 FastBackwar	SDCardLock	ServerUpload	PortraitRecogniti	KeypadLock	BarcodeScan	Unknown	AddressForm	ReplyAll	OvalDialogBo
6 Forward	SDCardDropO	ProjectUpload	IdentityCredenti	NumericKeypad	BarcodeScan	Restart	UserDefinedT	Forward	CircularDialog
7 FastForward	SDCardUnread	PacketUpload	IdentityConfirm	NumericKeypad	BarcodePrinter	Search	UserDefinedT	Send	WordDialogB
8 StepBackwar	SDCardRead	FolderUpload	IdentityConfirm	NumericKeypad	ScanUnsucc	Scanning	SystemTags	SendAll	IssueDialog
9 StepForward	SDCardDisable	FileUpload	PasswordInput	Delete	ScanSucceed	ScanBox	AddressTag	Receive	StopDialogBo
10 Restarted	SDCardWarning	PictureUpload	PasswordCertificate	Enter	NoThisBarcode	Scanner	AddressTagS	SendAndRece	CautionDialog
11 Undo	SDCardSearch	CloudUpload	PasswordSuccess	Shift	Search	PackageQRCode	Classification	CancelSendA	BellDot
12 Redo	SDCardProtect	HMIUpload	PasswordUnsucc	Windows	BarcodeSetti	CloudQRCode	Search	MailConfirm	Megaphone
13 Repeat	External SD Card	UploadSetting	PasswordProtect	NumericInput	KeyInNumber	MobileScanni	Delete	MailDeletion	MobileText
14 Random	SDCardFormat	UploadRun	Password	Input	CountingList	FileScanning	Export CSV	MailSharing	GroupNotifica
15 Expand	MicroSDCard	UploadSuccessful	FingerprintRecogn	SquareFoot	Report	ComputerScanni	Import CSV	MailEncryption	CalendarDot
16 Compress	USBIconV	UploadStop	FingerprintRecogn	Square	PIN		Export EXCEL	Spam	FAQ
17 Compress	USBIconH	UploadTimeOut	FingerprintRecogn	OneX	LN		Import EXCEL	Reorganize	DataReportin
18 Expand	USBDisk	UploadUnsucc	RecognitionIris	IsDividedBy	ID/C		Address	AddMail	HMIReporting
19 VideoFile	USBDisk2	DownloadArrow	RecognitionIris	IsMultipliedBy	BOM		Macro Subroutine	Edit	PLCReporting
20 AudioFile	USBWiFi Dongle	DownloadArrow	RecognitionIris	Minus	PO		ReadWriteConversion	ShippingBack	WaterStage
21 Video	USBLock	DownloadBox	ComputerPassw	Plus	MO		ObjectInformat	AttachmentLet	Temperature
22 VideoClose	USBDropOut	DatabaseDown	HMIPasswordCr	Arrowkeypad	QTY		HMI Address	Search	Pressure
23 Microphone	USBSearch	ServerDownloa	MobilePassword	ArrowUp	NG		PLC Address	LetterMovedTo	Equipment
24 MicrophoneM	USBProtected	ProjectDownloa	DatabasePassw	ArrowDown	LRR		Source Address	MarkedUnread	Manipulators
25 VolumeUp	USBHardware	PacketDownloa	ManualPassw	ArrowLeft	RMA		Destination Address	Annex	PilotLamp
26 VolumeDown	DropOut	FolderDownloa	GraphicRecogniti	ArrowRight			IP Address	Annex	Maintenance
27 VolumeOff	USBCable	FileDownload	Key	StarKey			Address Mapping Tables	@	At
28 VolumeMute	USBConnectio	PictureDownloa	KeyCredential	FoundKey			Easy Address Viewer	Inbox	Warning
29 WebCam	USBDisable	CloudDownloa	Password	Microphone			AddressValue	Seal	Event
30 WebCamClose	USBWarning	HMIDownload	UnlockedSucc	MicrophoneMu				Trash	Broadcast
31 Headphones	USBProhibited	DownloadSetti	SuccessfulCertif	Video				Tag	TrafficVolume
32 Music	USB 3.0	DownloadRun	AuthenticationF	VideoClose					InternetSpeed
33 Film	USBMicro	Downloadsucc							NotConnecte
34	USBMini	DownloadStop							FullCapacity
35	USBTypeA	DownloadTime							Cancel
36		DownloadUnsu							Subscription
37		CloudUploadD							
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Button Switch



Selector Switch



Toggle Switch



Key Lock Switch



DIP Switch



Slide Switch



Rocker Switch



Magnetic Switch



Nameplates



Valve

