

**Graphic Panel** 



# **Solution Guide**

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Thank you very much for selecting Autonics products. For your safety, please read the corresponding product manuals before using them

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### Preface

Thank you very much for selecting Autonics products.

Please familiarize yourself with the information in this manual and in the product manuals before using them.

This solution guide contains information about a specific architecture solution and does not replace any specific product documentation.

This document does not attempt to describe the entire solution architecture and configuration but only introduce some basics procedures. Customization of this solution can be made by the users in respect of safety laws and regulations.

# **Document Guide**

- This manual provides procedure steps for a particular solution architecture. It does not offer any guarantee concerning matters beyond the scope of this manual.
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- This manual is not provided as part of the product package. Please visit our home-page (www.autonics.com) to download a copy.
- The content of this manual may vary depending on updates of the product software and others unforeseen developments within Autonics. It is subject to change without prior notice. Upgrade notices are published through our homepage.
- We contrived to describe this manual the easiest and more accurate way. However, if there are any corrections required or questions, please notify us these remarks on our homepage.

# **Document Symbols**

Symbol	Description
Note	Additional information about a particular feature.
Å Warning	Failure to follow instructions can result in serious injury or death.
A Caution	Failure to follow instructions can lead to a minor injury or product damage.
Ex.	An example of the concerned feature's use.
*1	Annotation mark.

# **Document Version History**

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#### **1** Solution Overview

#### 1.1 Solution description

Autonics GP-S070-T9D6 device from the GP/LP series is a 7.0 inch LCD color touch panel with build-in serial connection through RS-485 and RS-232C ports. It is a standalone screen with custom OS and dedicated graphic editor software to create up to 500 graphic pages.

Thanks to its characteristic, it can be added on top of any existing automation architecture with different type of serial connection and can monitor different devices parameters or statuses and key Setting Values or Present Values, facilitating the access to data that was not in the previous architecture.



This solution brings the following benefits to your current installation:

- > Allows to monitor in real time PLC & devices status and feedback values
- > Allows a convenient control of the different parameters and setting values
- > Allows a fast and clear notification of the different alarms

This solution is optimized because:

- Can be simply added on top of your current installation
- > Very small dimension so can be installed close to the controlling device for or local control
- Internal graphics and control functions for standalone application without need of server or OS licensing.

#### **1.2** Solution components and version

Hardware / Software	Version	Note
Ms Windows	Win 7	
GP-Editor	v4.01 (build 023)	Autonics product. Release 2016.10.13
GP-S070 T9D6	Firmware v1.20	Autonics product. Release 2016.01.26
XG-5000	v4.20	LS product. Release 2017.03.24
XBM-DN32S(Cnet)		LS product
Serial Cable		Autonics ref. C3M5P11-D9F0-W4*0

0

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#### 1.3 **Solution architecture**

GP-S070-T9D6



RED

BLACK

#### **Communication cable pin details and dimensions** 1.4 (Autonics model: C3M5P11-D9F0-W4\*0)

C3M5P11-D9F0-W4\*0 cable

\$



(unit: mm)

Bottom view

BROWN

Front view

#### 2 GP-S070 Communication Settings

The GP device should be set to use its RS232C port and to control data registers of a XBM type device.

So we need:

- to create a GP-Editor project with XBM connection and different graphical components to interact with the XBM registers
- to set communication parameters of the GP device to allow a connection with the PC and GP-Editor
- to send the GP-Editor project to the GP device
- to check the serial communication settings of the GP connection with the XBM PLC.

#### Remarks:

In this document, we will use an Ethernet connection to download the GP-Editor project to the GP device, please refer to the 'GP-Editor Download Manual' if you want to use another method (serial connection or USB connection).

#### 2.1 GP-Editor project settings

- 1st Run the GP Editor software and select [Project] [New] in the menu bar. If you already build a project file, open this project by selecting [Project] [Load] in the menu bar.
- 2nd In the 'GP/PLC Type' dialog box, set 'GP/LP Type', CH1/2 'Group' and 'Type' as bellow then click 'OK'.

GP/PLC Type	×
GP/LP Type : GP-S070 T9D6 (800 X 480)	•
CH1 Group : NoUse	•
CH1 Type : NoUse	-
CH2	
CH2 Group : LS XGB SERIES	•
CH2 Type : XBMDR16_CPU_Cnet	■ MASTER
OK	Cancel

Item	Settings
GP / LP Type	GP-S070 T9D6
CH1 Group / Type	No Use
CH2 Group / Type	LS XGB SERIES / XBMDR16_CPU_Cnet

3rd In the 'Project Auxiliary Property' dialog box click 'OK'. The graphic editor page will be displayed.

Project Auxiliary Property	×
Basic Key Window Language Serial Port Setup Menu Key	
Configure Key Window / Cursor Display Operate for screen switching : Display Cursor Only Call key window when detecting touch	
Form	
Horizontal	
OK Cancel	

4th The project has been properly initially set. Then you need to create your own graphics and set links between GUI components and the XBM PLC registers.

Rem: Please refer to the 'GP-Editor User Manual' document for procedures on graphics creation or to the example section of this document for a simple interface example.

#### 2.2 GP-S070 Ethernet communication settings for GP-Editor

1st First check the computer IP settings:

On the PC, go to [Control Panel] – [Network and Sharing Center] – [Local Area Connection] – [Properties], click on 'Internet Protocol Version 4 (TCP/IPv4) and 'Properties'.

📮 Local Area Connection Properties 📃 💌		
Networking Sharing		
Connect using:		
Realtek PCIe GBE Family Controller		
<u>C</u> onfigure		
This connection uses the following items:		
<ul> <li>Client for Microsoft Networks</li> <li>VirtualBox NDIS6 Bridged Networking Driver</li> <li>QoS Packet Scheduler</li> <li>File and Printer Sharing for Microsoft Networks</li> <li>Internet Protocol Version 6 (TCP/IPv6)</li> <li>Internet Protocol Version 4 (TCP/IPv4)</li> <li>Ink-Layer Topology Discovery Mapper I/O Driver</li> <li>Link-Layer Topology Discovery Responder</li> </ul>		
<u>Install</u> <u>Uninstall</u> <u>Properties</u>		
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.		
OK Cancel		

2nd Note your IP address and default gateway to later set properly the GP address.

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Internet Protocol Version 4 (TCP/IPv4)	Properties ? 🔀			
General				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
Obtain an IP address automatical	ly			
• Use the following IP address:				
IP address:	169 . 192 . 1 . 10			
Subnet mask:	255.255.255.0			
Default gateway:	169.192.1.1			
Obtain DNS server address automatically				
• Use the following DNS server add	resses:			
Preferred DNS server:				
Alternate DNS server:	• • •			
🔲 Valjdate settings upon exit	Advanced			
	OK Cancel			

3rd On the GP-S070 device, click on the top-left of the screen to open the 'System Setting' menu.

$\bigcirc$						
	USER	SCREEN	IS NOT	FOUND		

Rem: if the 'System Setting' menu does not appear, the default menu shorcut has been changed. Try to click on the other corner of the touch panel or refer to the 'GP-S070 - User Manual'.

4th Select 'Environment'.



5th Select 'Local Ethernet'.

SYSTEM SETTING ENVIRONMENT	(LOS) 17/05/22 9:03 AM
Serial Communication	Language
Local Ethernet	Screen Bright
Assistance Setting	Clock

6th Set the Ethernet settings as below:

Items	Settings	Comment
IP Address	169.192.1.12	With last digit unique number on the network
Station	255.255.255.0	Same that the PC
Device	169.192.1.1	Same that the PC

GEFOR SYSTEM	SETTING\ ENVIRONMENT\ LOCA	_ ETHERNET	(C) 17/0 9:04	5/22 4 AM
	IP Address	169.192. 1. 12		
	Subnet Mask	255.255.255.0		
	Gateway	<u>169.192. 1. 1</u>		
	MAC Address	00 - 00 - 00 - 00 - 00 -	- 00	

7th Click on 'CLOSE' to validate the changes.

#### 2.3 Send GP-Editor project to GP-S070 device by Ethernet

1st In GP-Editor, select the [Communication] – [Download] menu, and click on 'Setting'.

Monitor Data Download		×
Configuration Base Window Other		
Tag • All Data	C Selected Data	
Protocol download		
Project Title :		
Project ID :	831023027	
GP/LP Type :	GP-S070 T9D6 (800 X 480)	
Download Close S	Setting Size: 0.5KB Sector 3	
	-	

2nd In the 'Option' window, select 'Ethernet' and write the GP IP address in the 'Target IP' or automatically look for your device by selecting the good 'LANCard IP', clicking on the 'Refresh' button and selecting the device that appears in the result table.

Option				X
File	Browse Communication			
_				
	C Serial	<ul> <li>Ethernet</li> </ul>	C USB	
	Target IP ·	160 102	1 15	
	larget in .	105 . 132 .	1 . 15	
	LANCard IP : 169	192.1.10	•	
		IP ADDRESS		
	•	III	4	
		Refresh		
				neel
				ncei

- 3rd Click on 'OK' to validate the connection method and to go back to the download page. Then click on 'Download' and 'Yes' to start loading the project in the GP device.
- 4th The project has been loaded in the GP device.

#### 2.4 **GP-S070** serial communication settings for XBM PLC

1st Click on the top-left of the GP-S070 to open the 'System Setting' menu.



Rem: if the 'System Setting' menu does not appear, the default menu shorcut has been changed. Try to click on the other corner of the touch panel or refer to the 'GP-S070 - User Manual'.

2nd Select 'Environment'.

GEFOR SYSTEM SET	TING		٩	17/05/22 9:01 AM
Monitoring	Environment	Data	Functionality	Diagnostics

3rd Click on 'Serial Communication'.

SYSTEM SETTING ENVIRONMENT	17/05/22 9:03 AM
Serial Communication	Language
Local Ethernet	Screen Bright
Assistance Setting	Clock

4th In the 'Serial' page, set the port parameters as below by clicking on the different values.

	PROTOCOL	PORT	
CH1	No Use	RS-422	SET
CH2	XBMDR16_CPU Cnet V 1.5M	RS-232C	SET

#### And GP Station address: 0

GEFOR	SYSTEM SETT	ING\ ENVIRONMENT\ SERIAL	¢	▶ 17/05/22 9:05 AM	CLOSE
		PROTOCOL	PORT		
	CH1	No Use	RS-422	SET	
	CH2	XBMDR16_CPU_Cnet V1.5M	RS-2320	SET	
	GP STATION :	0			

5th Change the communication settings by clicking the 'SET' button and setting parameters as below. Then click on 'CLOSE'.

ltem	Setting	Note
Baud rate	Multiple choice	User setting
Data length	8-bit	User setting
Parity bit	None	User setting
Stop bit	1-bit	User setting
Flow control	XON/XOFF	Any value

SYSTEM SETTING	ENVIRONMENT\ SERIAL\ SERIAL S	PECIFICATION	17/05/22 9:07 AM	
	CH2			
	BAUD RATE	19200		
	DATA LENGTH	8		
	PARITY	NONE		
	STOP	1		
	FLOW CONTROL	XON/XOFF		

6th The GP-S070 is ready to be connected to the XBM PLC by its RS232C communication port.

#### 3 XBM Project Settings

1st Run XG5000 and select [Project] – [New Project] in the menu bar. Enter project name and select CPU type 'XGB'-'XGB-XBMS' in the 'New Project' dialog box. Click 'OK'.

New Project			? <mark>×</mark>
P <u>r</u> oject name: File <u>d</u> irectory:	XBM_Test C:\XG5000\XBM_Test		OK Cancel
CPU Series	XGB 💌	Product Name	
<u>C</u> PU type:	XGB-XBMS 👻		
Programming Format:	XGK Programming		
Program name:	NewProgram		
Program Language:	LD	T	
Project description:			

2nd In the project tree, under [Network Configuration] – [Unspecified Network], double-click on the 'NewPLC [B0S0 Internal Cnet]' device.



ltem		Setting	Note
	Communication type	RS232C	Fixed
Standard	Communication speed	Same that GP setting	User setting
Channel 1	Terminating resistances	Disable	Fixed
	Station No.	Multiple choice	User setting, should be unique on the network
Operation mode	Channel 1	XGT server	Mandatory

3rd In 'Standard Settings - Cnet' dialog box appears. Set 'Standard Settings' tab as below.

octango	Channel :	1	Channel 2	2		
Type:	RS232C	-	RS485	-		
Speed:	19200	-	9600	•		
Terminating Resisters	Disable	-	Disable	-		
Station No.:	1		0			
Operation Mode Channel 1: XGT ser	ver	•	Modbus Set	ings		
Changel D. VCT cor			11000000000	ingo		
Channel 2: XGT ser	ver					
Channel 2: XGT ser						

4th In 'Advanced Settings' tab set as below, then click 'OK'.

ltem		Channel 1	
	Data bit	8	
Advanced settings	Stop bit	1	
5	Parity bit	NONE	

dard Settings - Chet		
andard Settings Ad	vanced Settings	
Connection Settings	Channel 1	Channel 2
Data Bit:	8	8 -
Stop Bit:	1	• 1 •
Parity Bit:	NONE	
Parity Receiving	Disable 🔻	r Disable 👻
Modem Type:	Null Modem 🔻	r Null Modem 👻
Modem Initialization:		
Time Settings		
Response Waiting Time: (0-50)(*100ms)	1	1
Delay Time Setting: (0-255)(*10ms)	0	0
Delay Time Between Character: (0-255)(*10ms)	1	1
	C	OK Canc

# 5th The project has been properly set. Then you need to create your own PLC program and download the complete project to the XBM device by selecting [Online] – [Write], then clicking 'OK'.

Rem: Please refer to the XG5000 documentation for procedures on Ladder program creation and other method to write project to a XBM device.

#### 4 GUI Example

#### 4.1 Solution overview

#### 4.1.1 GP-S070 drawing (in GP-Editor from Autonics)



#### 4.1.2 PLC program (in XG 5000 from LS)

0					C0000 (R)
N	CTUD	C0000	M00000	M00001	D00000
8					END

Rem: We will not describe how to create a Ladder program under XG 5000 in this document. Please refer to the XG 5000 documentation for more information.

#### 4.2 GP-S070 – XBM connection

GP-S070			ХВМ	
Item	Tag Property	g Property Usage		Word
1	Numeral display	Counter present value	_	C0
2	Numeral input	Counter set value	_	D0
3	Touch key (momentary)	Input (Up)	МО	_
4	Touch key (momentary)	Input (Down)	M1	_
(5)	Lamp	Counter output	C0	—
6	Touch key (momentary)	Reset	M2	_

In this example, we will set the communication address:

- of the XBM device to 1

- of the GP-S070 device to 0

#### 4.3 **GP Editor graphic**

#### 4.3.1 Numeral display

1st Select [Draw] – [Numeral Display] in the menu bar. Click 'Device' then set the device parameters as below.

Settings
[CH2]XBMDR16_CPU_Cnet
XBM communication address
CO
erty  ation  Frame : (255,255,255)  Plate : (0,0,0)  Color : (255,255,255)  # ##001 C0  Frame : (255,255,255)  Color : (255,255,25)  Color : (255,255,255)  Colo

2nd Click 'OK' then move/resize the component as desired.



#### 4.3.2 Numeral input

1st Select [Draw] – [Numeral Input] in the menu bar. Click 'Device' then set the device parameters as below.

Items	Settings		
Channel	[CH2]XBMDR16_CPU_Cnet		
Station	XBM communication address		
Device	D0		
Numeral Input Propert	y  er   Other   Frame : (255 255 255)		
Device	#001       D0       © 16bit         #001       © 32bit		
Project	OK Cancel Apply		

2nd Click 'OK' then move/resize the component as desired.



#### 4.3.3 Touch key (Up key)

1st Select [Draw] – [Touch Key] – [Action] – [Bit] in the menu bar. Click 'Device' and set the device parameters as below. Then click 'OK'.

Items	Settings		
Channel	[CH2]XBMDR16_CPU_Cnet		
Station	XBM communication address		
Device	МО		
Action	Momentary		
Touchkey Property Basic Form Act Action D Bit Mo	ion Option/Trigger         bevice/Screen Switching         imentary (CH2)M0         Bit         Word         Screen Switching         Edit         Delete		
	OK Cancel Apply		

- 2nd Click on the 'Form' tab, then on 'Shape...'. The graphic of the button can be selected in the image library, select for example the image '7 SW-013' then click 'OK'.
- 3rd Click 'OK', then move/resize the component as desired.



#### 4.3.4 Touch key (Down key)

1st Select [Draw] – [Touch Key] – [Action] – [Bit] in the menu bar. Click 'Device' then set the device parameters as below.

Items	Settings		
Channel	[CH2]XBMDR16_CPU_Cnet		
Station	XBM communication address		
Device	M1		
Action	Momentary		
Touchkey Property		×	
Basic Form Ac	tion Option/Trigger	1	
Action [	Device/Screen Switching		
	mentary [CH2]M1 Word Screen Switching Edit Delete		
1 Key Code			
	OK Cancel Apply		

- 2nd Click on the 'Form' tab, then on 'Shape...'. Select for example the image '8 SW-015' then click 'OK'.
- 3rd Click 'OK', then move/resize the component as desired.



#### 4.3.5 Lamp

1st Select [Draw] – [Lamp] in the menu bar. Click 'Device' then set the device parameters as below.

Items	Settings	
Channel	[CH2]XBMDR16_CPU_Cnet	
Station	XBM communication address	
Device	CO	
Lamp Property		×
Basic Bit		
Device	C0	
Shape © Basic Figur	e C Part C Graphic Library	
	OK Cancel Ap	ply

- 2nd Click on the 'Bit' tab, then on 'Shape...'. The graphic of the lamp can be selected in the image library, select for example the image '7 LP-013' then click 'OK'.
- 3rd Click 'OK', then move/resize the component as desired.



#### 4.3.6 Touch key (Reset key)

1st Select [Draw] – [Touch Key] – [Action] – [Bit] in the menu bar. Click 'Device' then set the device parameters as below.

Items	Settings		
Channel	[CH2]XBMDR16_CPU_Cnet		
Station	XBM communication address		
Device	M2		
Action	Momentary		
Touchkey Property			
Basic Form Action	n   Option/Trigger		
Action De	vice/Screen Switching		
1 Bit       Mom         □       Key Code :	entary       [CH2]M2         Bit       Word         Screen Switching       Edit         Delete       Delete		
	OK Cancel Apply		

- 2nd Click on the 'Form' tab, then on 'Shape...'. Select for example the image '2 SW-003' then click 'OK'. A Text can also be added by clicking on 'Text...'.
- 3rd Click 'OK', then move/resize the component as desired.

 00005 [CH2] M2	•	1	
 Res	set	ŀ	

#### 4.3.7 Graphic result



#### 5 Appendix

#### 5.1 Serial communication settings

The serial communication parameters can be set in GP-Editor or directly on the GP device. The following table shows which port can be set by using the 2 differents methods.

Item	Setting in GP Editor	Setting in GP-S070 device	
CH1 comm. setting	Available	Available	
CH2 comm. setting	Unavailable	Available	

#### 5.1.1 Change CH1 communication settings in GP-Editor

1st Select [Common] - [Auxiliary Configuration] - [Project] in the menu bar. Check the 'Application of serial port, setup, menu key, configuration' if it is not already done.

Project Auxiliary Property				
Basic Key Window Language Serial Port Setup Menu Key				
Configure Key Window / Cursor Display Operate for screen switching : Display Cursor Only Call key window when detecting touch Call key window when detecting touch				
OK Cancel				

Port Configuration			
Baudrate : Handshaking :	XON/XOFF	- -	
Parity :	None	•	
Data Bit :	8bit	•	
Stop Bit :	1bit	•	

2nd In the [Serial Port] tab, set CH1 port configuration.

3rd In the [Setup] tab, select CH1 port type and set station numbers. The other available port will be allocated to the CH2 port.

Project Auxiliary Property				
Basic Key Window Language Serial Port Setup Menu Key				
Preserve time of opening screen : 5 • (SEC) Off time of backlight : 10 • (MIN) Configuration of initial screen number : 0 •				
© On C Off System Information				
Port Configuration Port : RS232				
Station : 1				
GP Station : 0				
OK Cancel				

#### 5.1.2 Change CH1/CH2 communication settings in the GP device

Please refer to the '2.4 GP-S070 communication settings' procedure.

### 6 Troubleshooting

#### 6.1 **GP-S070:** language settings

1st Click on the top-left of the GP-S070 to open the '시스템설정' menu.



Rem: if the 'System Setting' menu does not appear, the default menu shorcut has been changed. Try to click on the other corners of the touch panel or refer to the 'GP-S070 - User Manual'.

2nd Select '환경설정'.

(이전) AI스템설정	ţ		Þ	17/05/22 8:53 AM
모니티링	환경설정	eiote <del>l</del>	기능설정	진단기능

3rd Click on '언어설정'.

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4th Click on 'ENGLISH' then validate the change by click '이전'.

	이전이시스템설정	환경설정\ 언어설정	(17/05/22 8:55 AM
	VIB	자 언어	AI스템 언어
ľ	시요지 어머	Koreen	
	국가별 문자폰트	JINDODUM	KOREAN ENGLISH
	영문 폰트	DODUM	
	벡터 폰트	DODUM	



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Any proposal for a product improvement and development: Product@autonics.com

Dimensions or specifications on this manual are subject to change and some models may be discontinued without notice.

#### www.autonics.com

- Corporate Headquarters

  18 Bansong-ro, 513 Beon-gil, Haeundae-gu, Busan, South Korea 48002
  Overseas Business Headquarters
  #402-303, Bucheon Techno Park, 655, Pyeongcheon-ro, Wonmi-gu, Bucheon, Gyeonggi-do, South Korea 14502
  Tel: 82-32-610-2730 / Fax: 82-32-329-0728 / E-mail: sales@autonics.com

  Brazil Autonics do Brasil Comercial Importadora Exportadora Ltda

  Tel: 55-11-2307-8480 / Fax: 55-41-2309-7784 / E-mail: comercial@autonics.com.br

  Brazil Autonics electronic/Jlaxing) Corporation

  Tel: 86-21-5422-5906 / Fax: 85-71-5422-5901 / E-mail: china@autonics.com

  India Autonics Automation India Private Limited

  Tel: 62-21-8088-8814/5 / Fax: 62-21-8088-4442(4440) / E-mail: indonesia@autonics.com

  Indonesia PT. Autonics Indonesia

  Tel: 62-21-8088-8814/5 / Fax: 62-21-8088-4442(4440) / E-mail: indonesia@autonics.com

  Japan Autonics Japan Corporation

  Tel: 62-21-8088-8814/5 / Fax: 62-21-8088-4442(4440) / E-mail: indonesia@autonics.com

  Japan Autonics Japan Corporation

  Tel: 60-3-7805-7190 / Fax: 60-3-7805-7193 / E-mail: malaysia@autonics.com

  Malaysia Mal-Autonics Sensor Sdn. Bhd.

  Tel: 52-55-5207-0019 / Fax: 52-55-1663-0712 / E-mail: wentas@autonics.com

  Mexico Autonics Mexico S.A. DE C.V

  Tel: 52-55-6207-0019 / Fax: 52-55-1663-0712 / E-mail: wentas@autonics.com

  Bussia Autonics Corp. Russia Representative Office

  Tel: 78-395-6360-10-88 / E-mail: russia@autonics.com

  Bussia Autonics Otor Autosia Representative Office

  Tel: 78-47-800-8160 / Fax: -64-7805-9112 / E-mail: infotr@autonics.com

  Bussia Autonics Otomasyon Ticaret Ltd. Sti.
  Tel: 94-78-608-160 / Fax: -64-7805-9155 / E-mail: sales@autonics.scan