

# Human Machine Interface

HM series and GT series



**IN Your  
Innovation**



# IN Your Innovation

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# IN Your Innovation

## Panasonic HMIs - more than just touch terminals

The current industrial revolution requires seamless communication between man and machine. Of central importance for successful networking is the machine's operating device, which serves as the communication interface.

The logical visualization of the processes and data on the display is essential for the system's intuitive and error-free operation and the production itself.

Thanks to the web-server architecture of the latest HMI from Panasonic Industry, the operator has a wide range of options for controlling and remote monitoring of the machines and can access the machine from a PC, tablet, or smartphone.

Quality that you can see

Our high-performance displays deliver brilliant images. Individually adjustable parameters such as brightness and contrast guarantee maximum readability.

In addition, all LCDs offer a wide viewing angle. The compact housings and the extremely resistant front foils are evidence of robust design.

All touch terminals comply with the relevant international standards and guidelines.

As with all Panasonic products, the touch terminals are subjected to extreme tests that far exceed the usual requirements. Carefully selected components and materials guarantee a long life cycle.

### Application examples:



Machine automa-  
tion



Machine builders



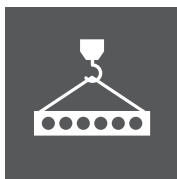
Packaging



Metal processing



Liquid dispensers



Positioning  
systems



Material handling



Printing machines





### Service

Panasonic Industry Europe's comprehensive service includes

- > an expert hotline,
- > workshops and
- > on-site service,

to ensure the reliable and effective use of our touch panels.



## HM SERIES



### HMs700 series – smart & innovative

- > PoE (Power over Ethernet)
- > Multitude of installation topologies
- > Wi-Fi connection
- > Internal temperature sensor



### HMx700 series – high-end multi-touch

- > Capacitive glass touch panel
- > UV resistant, scratch resistant, resistant to chemicals
- > Three Ethernet ports
- > Display size 5", 7", 10.1", 15.6" and 21.5"



### HMeX series – for challenging applications

- > 2 Ethernet-ports
- > high-resolution multitouch capacitive glass display



### HMe series – economical

- > A top product in its class
- > Inexpensive
- > Configurable serial interface
- > Reliable
- > Industrial grade



#### PoE (HMs700)

##### Power over Ethernet

- ✓ Maximum connectivity thanks to standard CAT5 wiring
- ✓ Only one cable needed (power and Ethernet)
- ✓ Up to 100m distance from source



#### MQTT (all models)

##### Message Queuing Telemetry Transport

- ✓ Designed for connections with remote locations
- ✓ Suitable for limited network bandwidth



#### Fanless (HMs, HMx & HMeX)

##### Passive cooling

- ✓ Protection against dust, oil and splash water
- ✓ Low maintenance
- ✓ Noiseless



#### OPC UA (all models)

##### Standardized communication protocol

- ✓ Platform-independent exchange of machine data



#### Wide variation of mountings (HMs700)

##### VESA, wall, tube, gooseneck, table stand

- ✓ High flexibility for installation



#### Web server architecture (all models)

##### Based on the current HTML5 web technology

##### Supports VNC technology

- ✓ Offers many possibilities of remote monitoring and control



#### Wi-Fi (HMs700 series except HMs705)

##### Wireless Local Area Network

- ✓ Ease of installation and use
- ✓ Offer wireless access to employees and customers
- ✓ Connection to the wider Internet



#### Full IP67 degree of protection (HMs700)

##### The complete encapsulation enables the HMI to be installed under difficult environmental conditions

- ✓ Ideal for mounting with a swivel arm directly to the machine.
- ✓ Cost-efficient



#### MULTI-TOUCH FUNCTION (HMs, HMx & HMeX)

##### Logical visualization of processes and data

- ✓ Avoidance of incorrect operation due to intuitive operation of the system



#### USER-FRIENDLY

##### Play videos

##### Read PDFs

##### Zoom

##### Extremely fast writing

##### Operation with protective gloves

- ✓ High user ergonomics and comfort in daily work

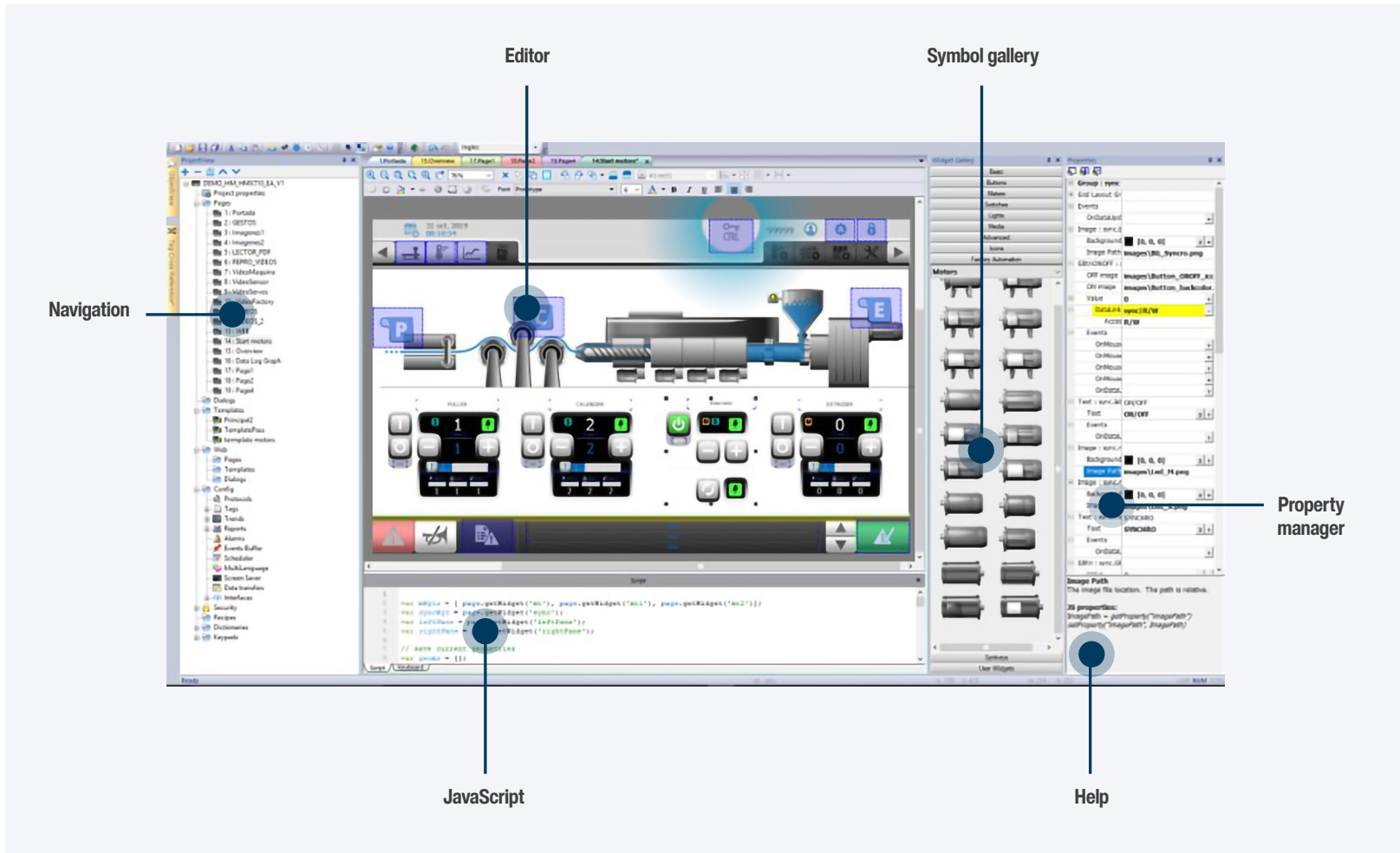


InfoHub

# HMWIN STUDIO

Configuration software:

Same tool for all HM series touch panels (and for FP-I4C)



- > Multi-protocol capability
- > Cloud-ready
- > HTML5 web technology

- > VNC technology (Virtual Network Computing)
- > CFR21 Part 11; FDA Compliance

- > Powerful web terminal with industry standard web engine
- > OPC UA standard

- > Simple and intuitive software interface
- > OS Linux RT

## HMS700 SERIES

HMs700 series– smart & innovative

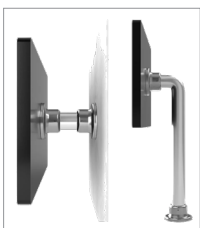


### Features

- > Multi touch, projected capacitive touch screen (PCAP)
- > Display sizes: 5", 7", 10.1", 15.6", and 21.5"
- > Real-time clock
- > Dimming to 0%
- > Extended operation temperature range: -20 to +55 degree Celsius
- > 1 x PoE (Power over Ethernet)
- > 1 x optional USB (via special cable)

Model	HMs705	HMs707	HMs710	HMs715	HMs721
Display size	5" TFT	7" TFT	10.1" TFT	15,6" TFT	21.5" TFT
Resolution	800 x 480, PCAP	1024 x 600, PCAP	1280 x 800, PCAP	1366 x 768, PCAP	1920 x 1080, PCAP
Sensors	Temperature, 3-axis accelerometer				
Wi-Fi	Not available	IEEE 802.11a/b/g			
Brightness	300cd/m <sup>2</sup> typ.	400cd/m <sup>2</sup> typ.			
Touchscreen	Projective capacitive touch glass, multi-touch				
Ethernet	10/100 PoE				
USB	1 (host V2.0, max. 500mA, available with special cable)				
Protection Class	IP67 (requires appropriate accessories and cables)				
CPU	ARM Cortex-A9 dual core - 800MHz			ARM Cortex-A9 quad core - 800MHz	
Operating system	Linux RT				
RAM / FLASH / FRAM	1GB / 4GB / 64KB			2GB / 8GB / 64KB	

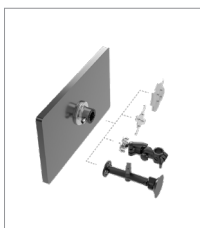
Installation: The wide variation of mountings offers a high flexibility for installation



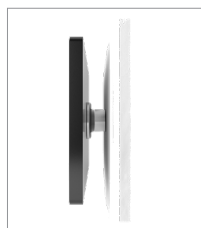
Tube mounting



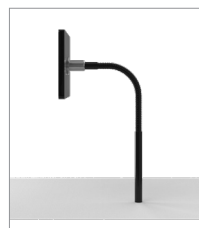
Table stand for mounting



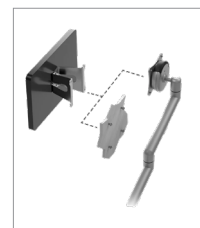
Multi-use mounting



Wall mounting



Gooseneck mounting



VESA mounting



## HMX700 SERIES

### HMx700 – high-end series with multi-touch functions

The series combines the best of two worlds: The HMx700 panel is a high-end touch panel for demanding IoT applications that, despite its wide range of features, does not compromise on durability.



### Features

- > Capacitive glass touch panel
- > Display sizes: 5", 7", 10.1", 15.6", and 21.5"
- > Fast start < 10 seconds
- > UV resistant
- > Scratch resistant
- > Resistant to many chemicals
- > Three Ethernet ports
- > Multi-protocol capability
- > Gateway to Corvina Cloud
- > OPC UA standard
- > VNC technology
- > Extended operation temperature range: -20 to +60 degree Celsius

Model	HMx705	HMx707	HMx710	HMx715	HMx721
Display size	5" TFT 16:9	7" TFT 16:9	10.1" TFT 16:9	15.6" TFT 16:9	21.5" TFT 16:9
Resolution	800 x 480, PCAP	800 x 480, PCAP	1280 x 800,PCAP	1366 x 768, PCAP	1920 x 1080, PCAP
Backlight	LED				
Brightness	300 cd/m <sup>2</sup> typ.	500 cd/m <sup>2</sup> typ.		400 cd/m <sup>2</sup> typ.	300 cd/m <sup>2</sup> typ
Dimming	Yes				
Colors	64K	16M			
Touchscreen	Capacitive glass, multi-touch				
Portrait mode	Yes				
Serial port (Universal)	RS232, RS485, RS422, software configurable				
Ethernet port	2x 10/100Mbit	3x 10/100Mbit			
USB port	1 (host V2.0, max. 500mA)	2 (host V2.0, max. 500mA)			
CPU	ARM Cortex-A8 1GHz	ARM Cortex-A9 dual core 800MHz		ARM Cortex-A9 quad core 800MHz	
RAM / flash memory	512MB / 4GB	1GB / 4GB		2GB / 8GB	

## HMeX series - designed for cost-effective and challenging applications

The powerful 64-bit processing platform, Linux compatibility, and cybersecurity design make these products ideal for modern applications. To achieve optimal performance in smart factory applications through remote connectivity and smart data sharing.



## Features

- > 5", 7", 10" and 15" Touchscreen
- > Capacitive Multitouch terminal support touch gestures (wiping, zooming scrolling)
- > 2 Ethernet-ports supports security

Model	HMeX205	HMeX207	HMeX210	HMeX215
Display - Colors	5" - 16.7M	7" - 16.7M	10" - 16.7M	15" - 16.7M
Resolution	800x400	1024x600	1280x800	1920x1080
Touchscreen	Projected Capacitive - Multitouch			
CPU	64-bit RISC quad core - 1.6GHz			
Operating system	Linux			
RAM / FLASH	4 GB / 2 GB			
RTC	Yes, RTC back-up			
Ethernet	2 (10/100 Mbit)			
USB	1 (Host v. 2.0, max. 500 mA)			
Serial port	1 (RS-232, RS-485, RS-422, software configurable)			
Operating Temperature	-20° to +55 °C (vertical installation) Plug-in modules and USB devices may limit max temperature to +50 °C			

## HME SERIES

### HMe series – economical

The HMe series, the ideal choice for all applications – everywhere. The HMe touch terminals, where e stands for economy version, work with our powerful HMWIN Studio software. Economy version means that the hardware has been stripped down to the essential components, making the touch panel a leader in its class.



### Features

- > Resistive touch terminal
- > Display sizes: 4.3", 7", 10.1"
- > Wide color display for all models
- > CE, cULus
- > Powerful and intuitive programming with HMWIN Studio software
- > 3 years warranty
- > 1 Ethernet port
- > Software-configurable serial port: RS232C/RS422/RS485
- > 1 USB port with host interface version 2.0
- > Operation temperature range: 0 to +50 degree Celsius

Model	HMe04	HMe07	HMe10
Display size	4.3" TFT 16:9	7" TFT 16:9	10.1" TFT 16:9
Resolution	480 x 272, WVGA	800 x 480, WVGA	1024 x 600, WVGA
Backlight	LED		
Brightness	200 cd/m <sup>2</sup> typical		
Dimming	Yes		
Colors	64K		
Touchscreen	Analog resistive		
Portrait mode	Yes		
Serial port (Universal)	RS232, RS485, RS422, software configurable		
Ethernet port	1x 10/100Mbit		
USB port	1 host interface V2.0		
CPU	ARM Cortex A8 1GHz		
User memory	2GB flash memory	4GB flash memory	

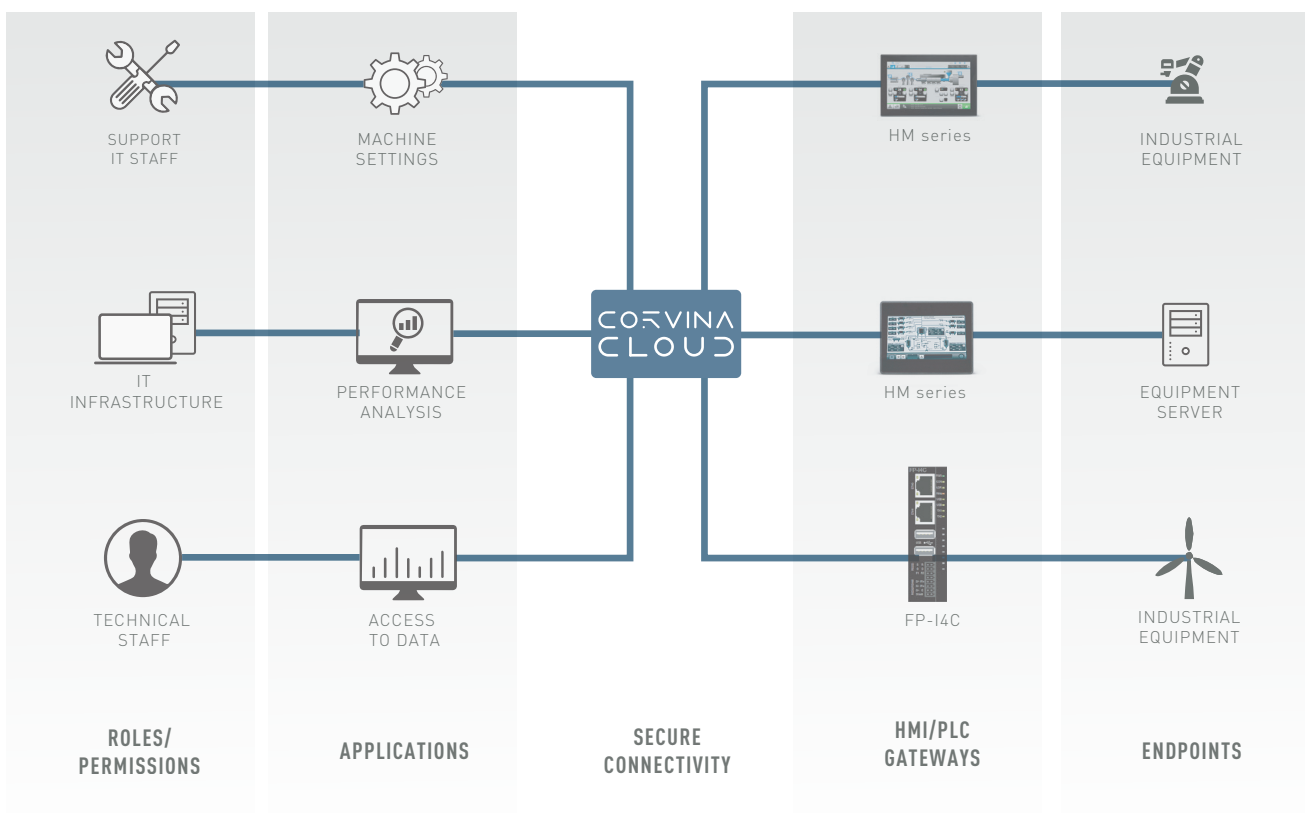
## SOFTWARE

### Cloud solution for the HM series

Corvina Cloud is a safe cloud solution based on OpenVPN and SSL and allows remote administration of industrial installations. This way, you have a platform making the administration of your IIoT business easy.



### How does Corvina Cloud work?



#### Roles & applications

It is possible to define different roles with different user rights. Roles can be given access rights depending on the data needed and the application.

#### Secure connectivity

In its core, Corvina Cloud is a high-performance server with the latest open technologies to manage data and control flows, thus acting as a Platform as a Service (PaaS).

#### Gateways & endpoints

Our touch panels (HMe series, HMx700 series, HMs700 series) serve as gateways to the local network. Panasonic PLCs, IP cameras, and other devices capable of connecting to the Internet can act as endpoints.



### GT707

#### progressing towards a new dimension

The extremely user-friendly touch panel provides more display space while maintaining a slim design.

#### > TFT color screen for excellent life-like images

The comfortable widescreen LCD (800 x 480 pixels) displays images in high contrast without distracting dots or lines.

#### > Status monitor

The GT707 offers an easy way to check the status of all connected devices at one glance.



### GT703/GT704

#### with built-in Ethernet port

Use the GT703/704 series to display and simultaneous log data with multiple PLCs from the FP or FP7 series in a network. Data from PLC programs and registers can be saved to the GT's internal memory or on SD memory cards.

#### > Edit screens & PLC programs via Ethernet

Another feature is the possibility to edit data on multiple GT touch terminals or change PLC programs via Ethernet communication.

#### > Easy data acquisition via Ethernet

With a dedicated software tool it is possible to read data from the GT touch terminals and their SD memory cards. Information from multiple touch terminals can be transferred to a host PC via Ethernet.



## HM SERIES - TECHNICAL DATA

### HMx700

Description	Part number
HMx705 touch terminal 5" TFT widescreen, multi touch, capacitive glass, -20° to +60°C, 64K colors, 800x480 pixels, WVGA, SD card slot, 1 x RS232/485, 1 x USB host, 2 x LAN 10/100	QUAE0001863
HMx707 touch terminal 7" TFT widescreen, multi touch, capacitive glass, -20° to +60°C, 16M colors, 800x480 pixels, WVGA, SD card slot, 1 x RS232/485, 2 x USB host, 3 x LAN 10/100	QUAE0001864
HMx710 touch terminal 10.1" TFT widescreen, multi touch, capacitive glass, -20° to +60°C, 16M colors, 1280x800 pixels, WXGA, SD card slot, 1 x RS232/485, 2 x USB host, 3 x LAN 10/100	QUAE0001866
HMx715 touch terminal 15.6" TFT widescreen, multi touch, capacitive glass, -20° to +60°C, 16M colors, 1366x768 pixels, HD SD card slot, 1 x RS232/485, 2 x USB host, 3 x LAN 10/100	QUAE0001868
HMx721 touch terminal 21.5" TFT widescreen, multi touch, capacitive glass, -20° to +60°C, 16M colors, 1920x1080 pixels, full HD, SD card slot, 1 x RS232/485, 2 x USB host, 3 x LAN 10/100	QUAE0001869

### HMeX200

Description	Part number
HMeX205 Touch panel 5" TFT widescreen, 16.7M colors, 800x480, 1 x RS232/485, 1 x USB-Host, 2 x LAN 10/100	QUAE0002482
HMeX207 Touch panel 7" TFT widescreen, 16.7M colors, 1024x600, 1 x RS232/485, 1 x USB-Host, 2 x LAN 10/100	QUAE0002483
HMeX210 Touch panel 10.1" TFT widescreen, 16.7M colors, 1280x800, 1 x RS232/485, 1 x USB-Host, 2 x LAN 10/100	QUAE0002484
HMeX215 Touch panel 15.6" TFT widescreen, 16.7M colors, 1920x1080, 1 x RS232/485, 1 x USB-Host, 2 x LAN 10/100	QUAE0002485

### HMe

Description	Part number
HMe04 touch terminal 4.3" 16:9 LED widescreen, 64K colors, 480x272 pixels, 1 x 1 RS232/422/485, 1 x USB host, 1 x LAN 10/100	QUAE0001853
HMe07 touch terminal 7" 16:9 LED widescreen, 64K colors, 800x480 pixels, 1 x 1 RS232/422/485, 1 x USB host, 1 x LAN 10/100	QUAE0001854
HMe10 touch terminal 10.1" 16:9 LED widescreen, 64K colors, 1024x600 pixels, 1 x RS232/422/485, 1 x USB host, 1 x LAN 10/100	QUAE0001856

### HM series accessories

Description	Part number
License for a secure VPN connection to the Corvina Cloud	QUAE0001872

## GT SERIES - TECHNICAL DATA

### GT707 / GT703/704

Description	Part number
Touch terminal GT707, 7", TFT LCD, 65536 colors, IP65, 800x480 pixels, RS232 9-pin Sub-D + USB mini-B (prog.), 24V DC, SD/SDHC card slot, black frame	AIG707WCL1G2
Touch terminal GT703 3.8", 64 gray scales, 480x192 pixels, Ethernet + RS232 + USB mini-B (prog.), 24V DC, black frame, LED backlight: green, red, orange, SD card slot	AIG703WGN1B2
Touch terminal GT703 3.8", 64 gray scales, 480x192 pixels, Ethernet + RS232 + USB mini-B (prog.), 5V DC (power cannot be supplied from a PLC's TOOL port), black frame, LED backlight: green, red, orange, SD card slot	AIG703WGN1B5

### GT series accessories

Description	Part number
Connection cable for GT01/GT02, 5V types to the TOOL port of PLCs from the FP series, 2m	AIGT8142J
Connection cable FP0/FP-X/FP□ (Sigma)/FP2/FP2SH TOOL port (L type) <-> FPWEB2/GT-RS232 (single wires), 2m	QUAE0001841
Mini USB programming cable, USB A to 5-pin mini USB, 1.8m	QUAE0001731
Programming software for the GT series GTWIN Ver. 3	AIGSGT7EN

# Panasonic

## INDUSTRY

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