GMTCNT

INDUSTRIAL AUTOMATION PRODUCTS

Total Solutions in Industry

GMT, in addition to its PLCs and Compact PLCs equipped with 100% production and design technology, offers a complete solution with HMI (Operator Panels), AC inverters, Servo Systems, Stepper Motors and Drivers, Industrial Robots, as well as products capable of serial communication and RF operation for the service of the industry.

GMT ENDÜSTRİYEL ELEKTRONİK SAN. VE TİC. LTD. ŞTİ.

GMT Electronics is a technology company established in 2014 by a group of engineers engaged in automation R&D for more than 30 years.

GMT aims to increase the efficiency and competitiveness of its customers by offering
quality and cost effective products.

GMT Electronics offers total solutions with its six product families under its brand GMTCNT : PLC, HMI, AC Drive, Servo Systems, Stepper and industrial communication products.

GMT products are widely used in different sectors. Our products aid several machine manufacturers in different applications such as filling packaging, pressing, cutting, extruder, textile, etc. They are also commonly used in factory automation for data acquisition and remote monitoring.

Our products have proved themselves in many different places in the sector with their
performance and quality.

GMT will always continue to invest in innovation and offer cost effective, easy and quick solutions.

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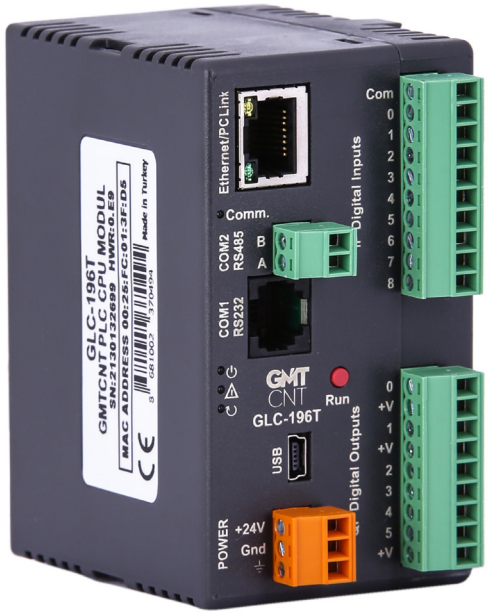
PLC – CPU & EXPANSION MODULES

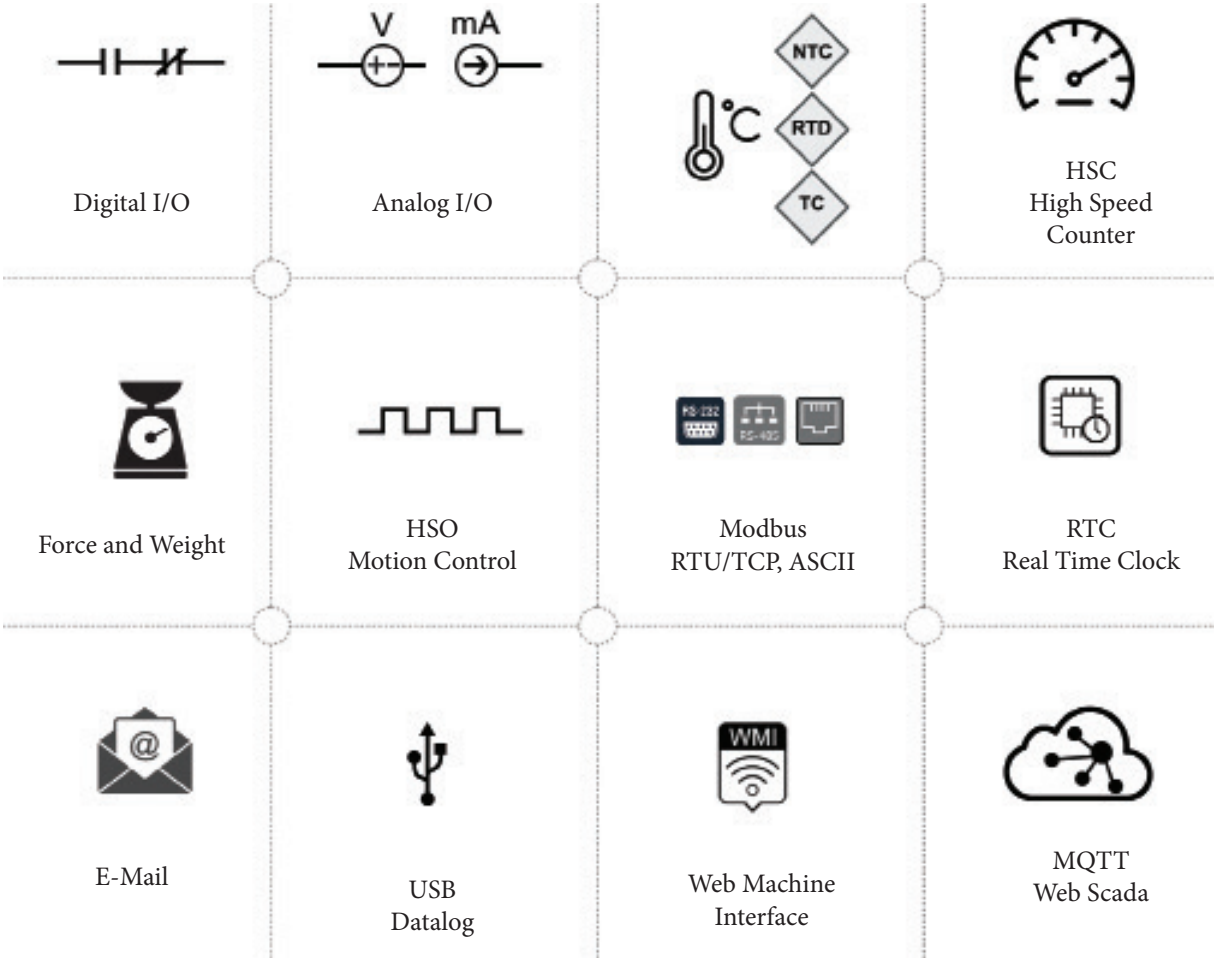


GMTCNT PLC family is developed to meet easy, economic and smart solutions for small and medium sized applications.

Digital, analog, temperature and loadcell modules provide users with a wide range of applications such as packing, textile, food, filling, wood, etc.

All analog, temperature and digital modules are designed with isolated components to keep PLC system stable against any interference.

GMTCNT PLCs are generally used to control machines.
Built-in Ethernet port offers economical and easy solutions for process automation, SCADA and IoT applications.



PLC – CPU & EXPANSION MODULES

TOTAL MACHINE
CONTROL SOLUTIONS

LOGIC OPERATION

TEMPERATURE MEASUREMENT

LOADCELL MEASUREMENT

ANALOG OUTPUT

ANALOG MEASUREMENT

MOTION CONTROL

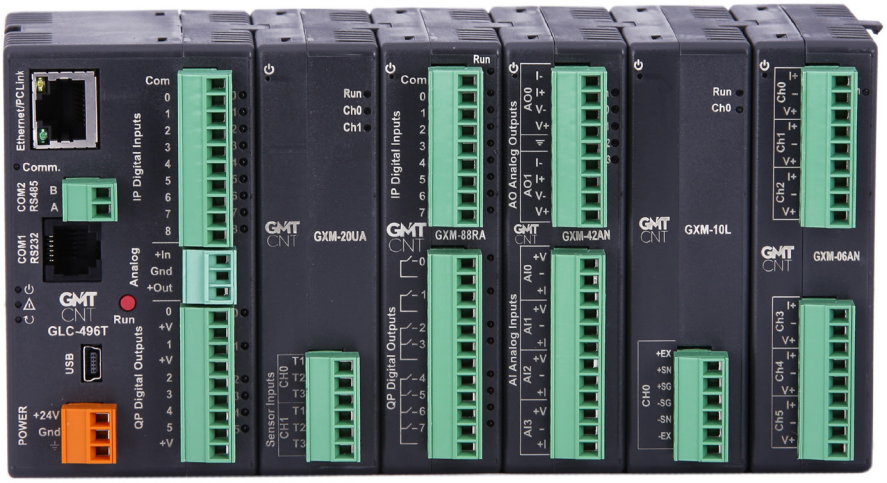
GMTCNT

gmtcontrol.com

CPU MODULES



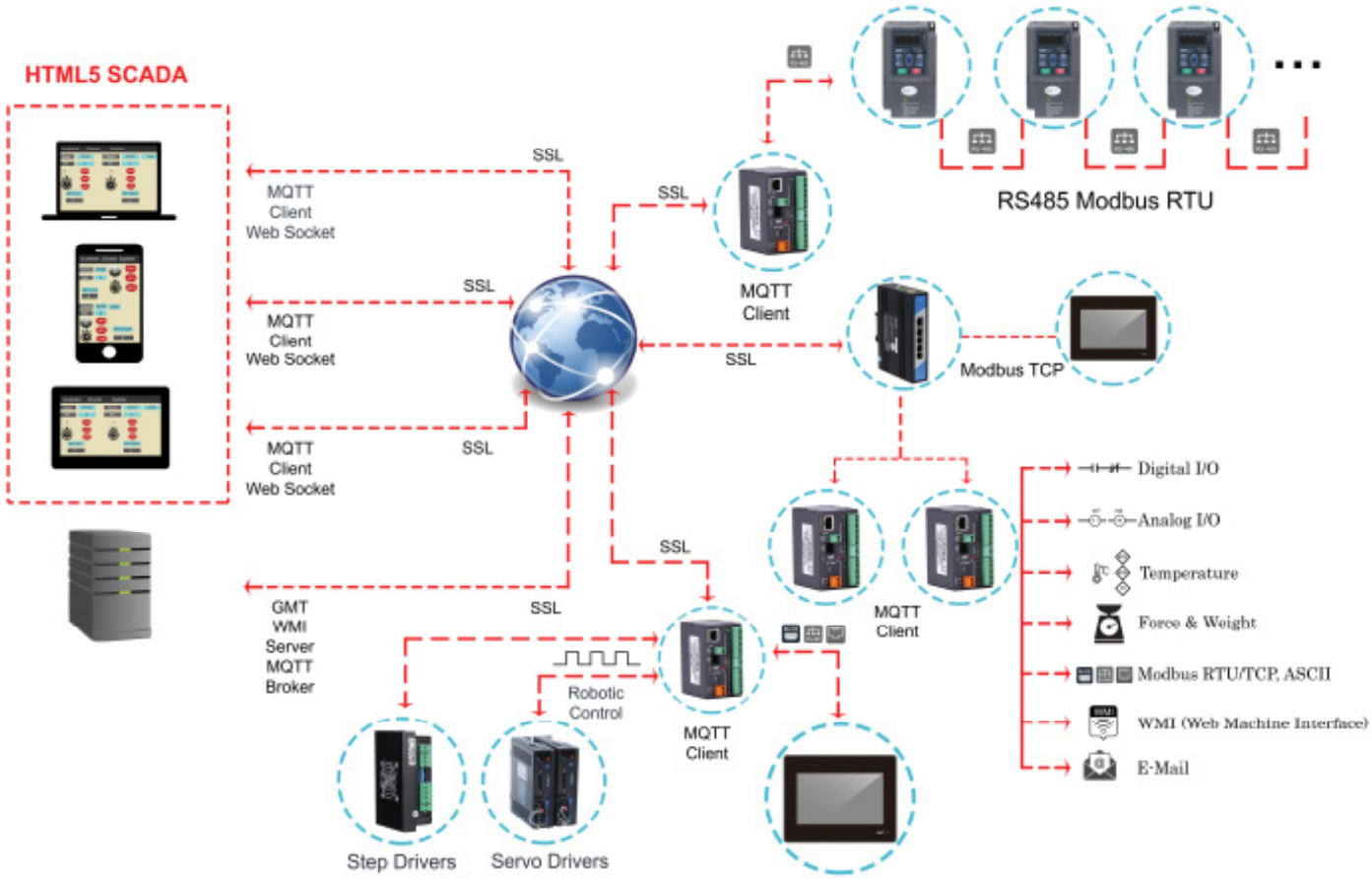

	MODEL	DESCRIPTION
CPU MODULES	GLC-196R	• 9 Digital inputs (PNP/NPN), 6 Relay outputs, RS485, RS232, 3 Ch. High Speed Counter 20kHz
	GLC-196T	• 9 Digital inputs (PNP/NPN), 6 Transistor outputs (PNP), RS485, RS232 • 3 Ch. High Speed Counter 20kHz • 3 Ch. High Speed Pulse outputs Max. 20kHz
	GLC-296R	• 9 Digital inputs (PNP/NPN), 6 Relay outputs, 1 Ch. Analog input, 1 Ch. Analog output • 3 Ch. High Speed Counter 50kHz, RS485, RS232
	GLC-296T	• 9 Digital inputs (PNP/NPN), 6 Transistor outputs (PNP), 1 Ch. Analog input, 1 Ch. Analog output, RS485, RS232 • 3 Ch. High Speed Pulse outputs Max. 100kHz • 3 Ch. High Speed Counter 50kHz
	GLC-396R	• 9 Digital inputs (PNP/NPN), 6 Relay outputs, 1 Ch. Analog input, 1 Ch. Analog output, RTC, WMI • 3 Ch. High Speed Counter 50kHz, RS485, RS232
	GLC-396T	• 9 Digital inputs (PNP/NPN), 6 Transistor outputs (PNP), 1 Ch. Analog input, 1 Ch. Analog output, RTC, WMI, RS485, RS232 • 3 Ch. High Speed Pulse outputs Max. 100kHz • 3 Ch. High Speed Counter 50kHz
	GLC-496R	• 9 Digital inputs (PNP), 6 Relay outputs, 1 Ch. Analog input, 1 Ch. Analog output, RTC, WMI, GMT SCADA • 3 Ch. High Speed Counter 200kHz, RS485, RS232
	GLC-496T	• 9 Digital inputs (PNP), 6 Transistor outputs (PNP), 1 Ch. Analog input, 1 Ch. Analog output, RTC, WMI, GMT SCADA, RS485, RS232 • 3 Ch. High Speed Counter 200kHz • 3 Ch. High Speed Pulse outputs max. 400kHz



EXPANSION MODULES

EXPANSION MODULES

MODEL	DESCRIPTION
GXM-44RA	• 4 Ch. 24 VDC Digital inputs (PNP/NPN), 4 Ch. Relay outputs
GXM-80IA	• 8 Ch. 24 VDC Digital inputs (PNP/NPN)
GXM-08TA	• 8 Ch. 24 VDC 300 mA Transistor outputs (PNP)
GXM-88RA	• 8 Ch. 24 VDC Digital inputs (PNP/NPN), 8 Ch. Relay outputs
GXM-88TA	• 8 Ch. 24 VDC Digital inputs (PNP/NPN), 8 Ch. 24 VDC 300 mA Transistor outputs (PNP)
GXM-16IA	• 16 Ch. 24 VDC Digital inputs (PNP/NPN)
GXM-16TA	• 16 Ch. 24 VDC 300 mA Transistor outputs (PNP)
GXM-40AN	• 4 Ch. 0-10 VDC, 0-20mA, 4-20mA Analog inputs (14 bit Resolution)
GXM-42AN	• 4 Ch. 0-10 VDC, 0-20mA, 4-20mA Analog inputs (14 bit Resolution) • 2 Ch. 0-10 VDC, 0-20mA, 4-20mA Analog outputs (14 bit Resolution)
GXM-02AN	• 2 Ch. 0-10 VDC, 0-20mA, 4-20mA Analog outputs (14 bit Resolution)
GXM-06AN	• 6 Ch. 0-10 VDC, 0-20mA, 4-20mA Analog outputs (14 bit Resolution)
GXM-20L	• 2 Ch. Loadcell inputs (24bit Resolution)
GXM-20LF	• 2 Ch. Loadcell inputs (24bit Resolution) (Customized Filter)
GXM-10L	• 1 Ch. Loadcell input (24bit Resolution)
GXM-10LF	• 1 Ch. Loadcell input (24bit Resolution) (Customized Filter)
GXM-40UA	• 4 Ch. Universal Temperature Module • Thermocouple (B,E,J,K,N,R,S,T) • PT-100, PT-1000, NTC (10k@25C) • 0-60 mVDC • 0-20 Ohm
GXM-20UA	• 2 Ch. Universal Termperature Module • Thermocouple (B,E,J,K,N,R,S,T) • PT-100, PT-1000, NTC (10k@25C) • 0-60 mVDC • 0-20 Ohm



MQTT
GMT SCADA & IOT
SOLUTIONS

GMT PLCs provide solutions for both machine manufacturers and IoT applications.
GMT Scada is a new feature of GMT PLC which allows users to control their system from remote points.

GMTScada can be easily configured in GMTSuite editor program. GMTScada is based on MQTT protocol.
The MQTT protocol has extremely lightweight messaging transport and supports SSL security level.

GTMScada enables users to access their application via PC-Tablet or Mobile phone through
www.gmtport.com web page from anywhere.

Here are the main advantages of GMT Scada :

- MQTT protocol provides fast communication and low bandwidth.
- High level security with SSL certificate.
- GMTSuite offers both PLC programming and scada software in one interface.
- No need to make port forwarding and extra professional settings in the router.
- Available for 496 series CPUs without extra charge.

MINI PLC

- Panel Mounted
- DIN Rail
- Function Keys
- 1.8” TFT LCD Color Screen
- Control Keypad

GSR-164R

- 24VDC Power Supply
- 6 Ch. Digital (PNP) / Analog Inputs (0-10V) (12 bit resolution)
- 4 Ch. Relay Output (5A@220VAC)
- Floating point operation
- 48 kB program memory
- Max 20kHz ladder cycle frequency
- 2 kHz Max input count frequency
- Built in RTC
- LCD screen 1.8” 128(RGB) x 160 TFT LCD
- 12 total buttons (6 programmable)
- DIN Rail / Panel Mounted

GSR-2118R

- 24VDC Power Supply
- 11 Ch. Digital (PNP) / Analog Inputs (0-10V) (12 bit resolution)
- 8 Ch. Relay Output (5A@220VAC)
- Floating point operation
- 192 kB program memory
- Max 20kHz ladder cycle frequency
- 2 kHz Max input count frequency
- Built in RTC
- LCD screen 1.8” 128(RGB) x 160 TFT LCD
- 12 total buttons (6 programmable)
- DIN Rail / Panel Mounted

GSR-2108T

- 24VDC Power Supply
- 10 Ch. Digital (PNP) / Analog Inputs (0-10V) (12 bit resolution)
- 8 Ch. Relay Output (5A@220VAC)
- Floating point operation
- 196 kB program memory
- Max 20kHz ladder cycle frequency
- 2 kHz Max input count frequency (All Inpusts)
- 1 Ch. itigh speed Input, Encoder Input 10kHz
- 1 Ch. itigh speed Pulse, Output 10kHz
- Built in RTC
- LCD screen 1.8” 128(RGB) x 160 TFT LCD
- 12 total buttons (6 programmable)
- DIN Rail / Panel Mounted

GSR-COM1

- GSR-COM1 communication adapter

USB 2.0 A-Male - Mini-B cable.

GSR-COM2

- GSR-COM2 communication adapter

USB flash memory.

PID TEMPERATURE CONTROL DEVICE

TEMPERATURE CONTROL DEVICE / GTC12S

- AI-PID control
- Digital calibration technology for input measurement.
- Support for various thermocouple types and RTDs.
- Auto tuning (AT) control.
- DIN rail mounting.
- User-friendly operating interface.
- 24VDC power supply.
- Enhanced anti-interference capability for operation in challenging industrial environments.

MODEL	DESCRIPTION
GTC12S	**Power Input :** 24VDC, +10%, -15%
	Power Consumption : ≤5W
	Supported Sensor Types : K, S, R, E, J, T, B, N, WRe3-WRe25, WRe5-WRe26, Cu50, thermocouple types, and Pt100
	DC Voltage : 0 ~ 5V, 1 ~ 5V, 0 ~ 1V, 0 ~ 100mV, 0 ~ 20mV, 0 ~ 500mV
	DC Current : 4 ~ 20mA (with 250 ohm shunt resistor)
	Measurement Range : K(-50~1300°C), S and R (-50~1700°C), T(-200~+350°C), E(0~800°C), J(0~1000°C), B(200~1800°C), N(0~1300°C), Cu50(-50~+150°C), Pt100(-200~+600°C)
	Measurement Accuracy : 0.25%FS ±1 measured unit
	Control Period : Can be selected from 0.24 to 300.0 seconds and this value should be in integer multiples of 0.5 seconds.
	Control Mode : On-Off control mode (dead band adjustable). Fuzzy logic PID control, automatic adjustment with AI-PID (advanced artificial intelligence algorithm).
	Output Features : SSR Output: 12VDC/30mA (for driving SSR)
	Sampling Period : Can take 8 samples per second. Response time can be set to 0.5 seconds by adjusting the digital filter parameter FILt=0.
	Alarm Function : Upper limit, lower limit, deviation upper limit, deviation lower limit.
	Electromagnetic Compatibility (EMC) : ±4KV/5KHz according to IEC61000-4-4; 4KV according to IEC61000-4-5.
	Insulation Withstand Voltage : ≥600V between terminals.
	Operating Conditions : Temperature -10~60°C, Humidity ≤90%RH
	Communication : Modbus RTU (RS485) 9600, 8, None, 1

HUMAN MACHINE INTERFACE

16.77M Color
TFT Display

ARM Cortex A7
Dual Core 1GHz.

256 MB NAND Flash
Memory
+ 128 MB DDR3 Memory

USB Slave Port

Com Port
RS232/RS485/RS422

BMP/JPG/GIF/PNG
Image Format

RTC
(Real-Time Clock)

PDF Viewer

Data Processing
(Data, Reports,
Alarms, Logos)

10/100M Ethernet

Extensive PLC Library

USB Host for Printer,
Datalog, Keyboard,
Mouse, Webcam

The GHS series is a new generation of industrial human machine interface. The new design and open Linux operating system make it a paradigm of high quality human machine interface.

The GHS series adopts mainstream processors in the market. This quality doesn't only improve the product's lifetime, but it also greatly improves the product's performance.

GMTCNT PDesigner editor software supports scripts, VNC, data report and alarm.

HUMAN MACHINE INTERFACE

- 16.77 M Color
- TFT Display
- ARM Cortex-A7 Dual Core 1GHz
- 256 MB NAND Flash + 128 MB DDR3 Memory
- RTC (Real Time Clock)
- 1 USB Slave port
- 1 USB Host port
- 1 RS232, 1 RS485, and 1 RS232/RS485/RS422 communication port
- Remote monitoring and control via VNC support on tablets, Smartphones, and PCs for models with Ethernet
- Front panel IP65 protection
- GMTCNT protocol allowing multiple HMIs to access a single PLC for inter-HMI communication
- Ability to connect a keyboard, mouse, flash drive, etc. to the USB host port
- Data logging, alarm, trend recording, and historical query capabilities with a flash drive connected to the USB host port
- Ability to create macros in the C language
- Setting security levels and user definitions
- Access to the HMI and external USB flash drive via FTP for Ethernet models
- Programmed with the PDesigner HMI Editor Program

GHS-043

SCREEN	RESOLUTION	BRIGHTNESS cd/m2	OPERATING TEMPERATURE	ADDITIONAL FEATURES
4,3″	800x480	500	0...+50°C	2 Serial Port

GHS-043E

SCREEN	RESOLUTION	BRIGHTNESS cd/m2	OPERATING TEMPERATURE	ADDITIONAL FEATURES
4,3″	800x480	500	0...+50°C	Ethernet port 2 Serial Porrt

GHS-070

SCREEN	RESOLUTION	BRIGHTNESS cd/m2	OPERATING TEMPERATURE	ADDITIONAL FEATURES
7″	1024x600	450	0...+50°C	USB Host 3 Serial Port

GHS-070E

SCREEN	RESOLUTION	BRIGHTNESS cd/m2	OPERATING TEMPERATURE	ADDITIONAL FEATURES
7″	1024x600	450	0...+50°C	USB Host Ethernet Portu 3 Serial Port

GHS-101

SCREEN	RESOLUTION	BRIGHTNESS cd/m2	OPERATING TEMPERATURE	ADDITIONAL FEATURES
10.1″	1024x600	450	0...+50°C	USB Host 3 Serial Port

GHS-101E

SCREEN	RESOLUTION	BRIGHTNESS cd/m2	OPERATING TEMPERATURE	ADDITIONAL FEATURES
10.1″	1024x600	450	0...+50°C	USB Host Ethernet Portu 3 Serial Port

- Front and back panel IP65 protection
- 65536 colors
- TFT Display
- 32-bit 800 MHz RISC CPU
- 128 MB Flash, 64 MB SDRAM
- RTC (Real-time clock)
- 1 USB host port
- 1 RS232 and 1 RS485 communication port
- Programmed with the GOP HMI Editor Program

MSG-156E

SCREEN	RESOLUTION	BRIGHTNESS cd/m2	OPERATING TEMPERATURE	ADDITIONAL FEATURES
15.6″	1920x1080	250	-10...+55°C	USB Host Ethernet Portu 2 Serial Port

HUMAN MACHINE INTERFACE

FRAMELESS DISPLAY MODELS

- 16.77M Color
- TFT Display
- ARM RISC 32-bit 792 MHz Processor
- 128 MB NAND Flash + 128 MB DDR3 Memory
- RTC (Real-Time Clock)
- 1 USB Slave port
- 1 USB Host port
- 1 RS232 and 1 RS232/RS485/RS422 communication port
- Remote monitoring and control via VNC support on Tablets, Smartphones, and PCs for model with Ethernet
- GMTCNT protocol allowing multiple HMIs to access a single PLC for inter-HMI communication
- Ability to connect a keyboard, mouse, flash drive, etc. To the USB host port
- Data logging, alarm, trend recording, and historical query capabilities with a flash drive connected to the USB host port
- Ability to create macros in the C language
- Setting security levels and user definitions
- Access to the HMI and external USB flash drive via FTP for Ethernet models
- Programmed with the PDesigner HMI Editor Program

FLG-043

SCREEN	RESOLUTION	BRIGHTNESS cd/m2	OPERATING TEMPERATURE	ADDITIONAL FEATURES
4,3″	480x272	450	0...+50°C	USB Host

FLG-070E

SCREEN	RESOLUTION	BRIGHTNESS cd/m2	OPERATING TEMPERATURE	ADDITIONAL FEATURES
7″	800X480	250	0...+50°C	USB Host, Ethernet Port

FLG-101E

SCREEN	RESOLUTION	BRIGHTNESS cd/m2	OPERATING TEMPERATURE	ADDITIONAL FEATURES
10.1″	1024X600	400	0...+50°C	USB Host, Ethernet Port

WSGBOX HDMI OUTPUT PANEL

- Cortex-A9 Processor
  512MB DDR3 + 4 GB eMM Memory
- HDMI V1.4 FHD (1920*1080 @ 60Hz) Display Port
- 2 USB Host Ports
- 1 10/100M Ethernet Port
- 3 Serial Communication Ports
  COM0: PLC RS232 / RS422 / RS485
  COM1: PLC RS485
  COM2: PC / PLC RS232
- 2 Digital Inputs
- 3 Digital Outputs
- Programmed with the PDesigner HMI Editor Program

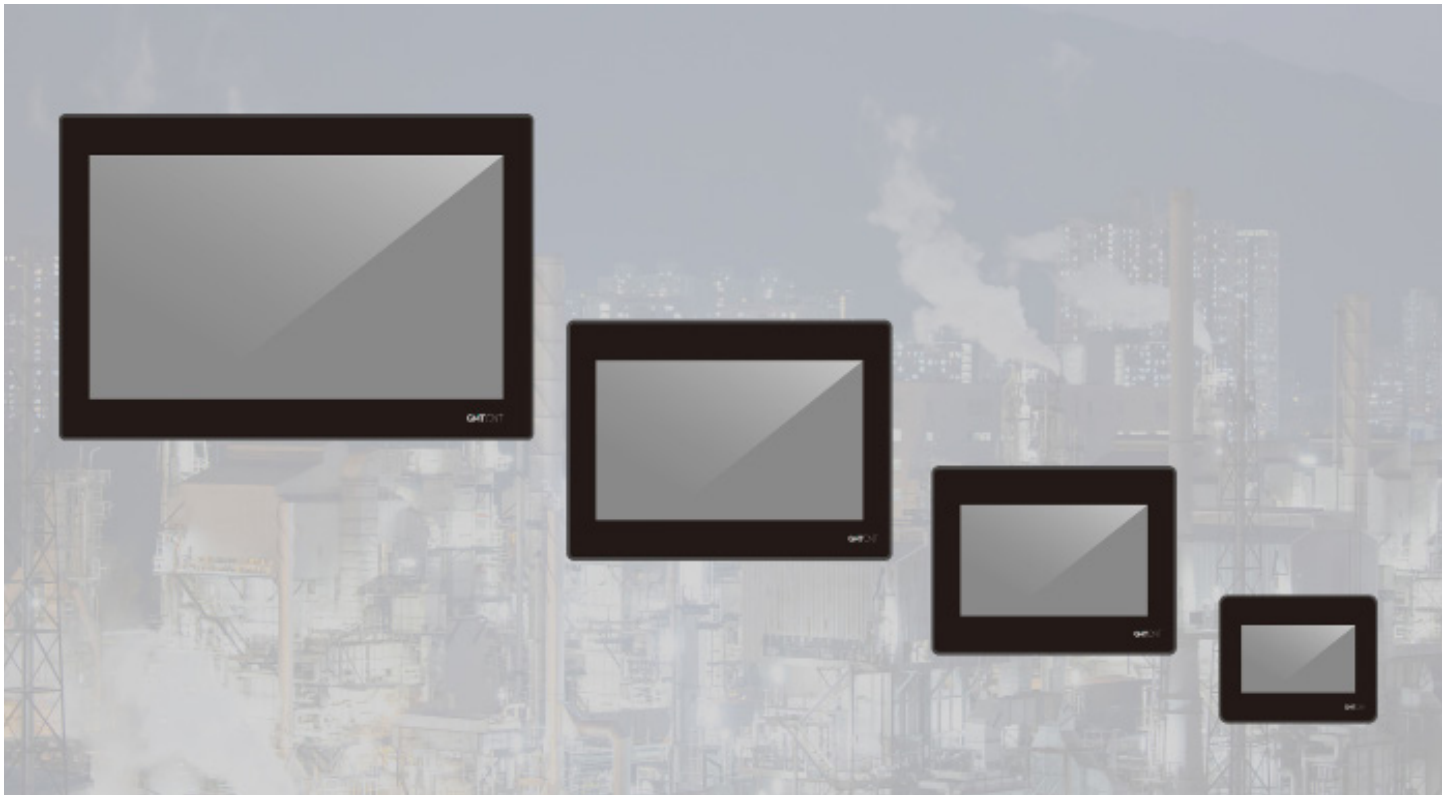
WSGBOX-01

PROCESSOR	DISPLAY OUTPUT	MEMORY	OPERATING TEMPERATURE	ADDITIONAL FEATURES
32bit RISC Cortex-A9 1 GHz	HDMI V1.4 FHD (1920 * 1080 @ 60HZ)	512 MB DDR3 + 4 GB eMMC	0...+50°C	Ethernet Port

FLEXIBLE HARDWARE

MONITORING AND CONTROL

EASY USAGE



HMI Products

GMT offers the latest technology in touch screen technology with the GHS, TSG and FLG Series Operator Panels.

The operator panels are developed for use in industrial applications. Real-time clock (RTC) is available as a standard feature in the products. The user-friendly software comes with a wide range of PLC libraries.

With the PDF Viewer function in the GHS series, PDF files can be viewed. Data recording and program loading can be done through USB Host feature. Keyboard, mouse, and web camera can be connected.

With VNC software, observation and control can be achieved through local network or internet access using Windows, IOS, and Android platforms for Ethernet port models.

IP65 Protection Feature

GHS series HMI panels have an IP65 protection on the front panel. GOP70 series panels, on the other hand, have both front and back panels with IP65 protection feature.

Communication

GMTCNT HMIs have USB Host, Ethernet port, and RS232/RS485 communication ports. With GMTCNT protocol, communication between HMIs can be established, and with VNC protocol, remote access to HMI can be made from tablets, smartphones, and PCs for control and monitoring purposes.

AC DRIVERS

Micno AC Drive family is launched based on the perfect combination of years of experience and advanced drive technology.
Micno and GAIN Series integrate with sensorless vector control, V/F control, torque control and soft start functions widely applied in pump & fan, and the applications which require high speed control accuracy, rapid torque response and high performance at low frequency.

- Power range from 0.4kW to 630kW
- V/F, SVC and Simple Torque control
- V/F Control 3000Hz, Vector Control 300Hz Output frequency.
- Dual Mode for Heavy load and Fan & Pump
- Common DC bus supporting
- Wobble Frequency Control
- 7 Digital inputs
- 2 Analog inputs
- 2 Digital outputs
- Built-in RS485 Modbus RTU
- PID function
- Simple PLC function
- Removable panel
- User friendly parameter setting
- Cost effective

Excellent design and superb manufacturing process adapting industry-leading automatic spraying and strict automatic testing standards, ensuring more stable and reliable products.

Dual PID switching with dual PID switching function, adapting to varied complicated conditions with flexibility.

Fast current limiting with fast current limiting function, easily responding to the conditions with sudden load, greatly reducing the probability of inverter's frequent overcurrent fault.

Built-in RS485 Modbus RTU Communicate. The host device can communicate with several inverters and control their parameters.

Original energy-saving mode with an original energy-saving mode, when at a light load, it automatically reduces the voltage to save energy.

Removable operator panel Micno series support removable operator panel with standard Ethernet cable.

Flux-weakening control Flux-weakening control, max. frequency of 3000 Hz. Easy for the applications requiring high speed.

PC monitoring software with various background monitoring functions, facilitating on-site data collection, download, and autogeneration of commissioning documents.

AC DRIVERS

GAIN SERIES

	POWER (kW)	CURRENT (A)	DIMENSION (mm) W x H x D	MODEL
1 X 220 VAC	0.40	2.6	85 x 160 x 130	**GAIN-00040S**
	0.75	4.6	85 x 160 x 130	**GAIN-00075S**
	1.5	8	85 x 160 x 130	**GAIN-00150S**
	2.2	11	85 x 160 x 130	**GAIN-00220S**

MICNO SERIES

	POWER (kW)	CURRENT (A)	DIMENSION (mm) W x H x D	MODEL
1 X 220 VAC	0.40	2.3	85 x 140 x 125	**MICNO-00040S**
	0.75	4.0	85 x 140 x 125	**MICNO-00075S**
	1.5	7.0	85 x 140 x 125	**MICNO-00150S**
	2.2	9.6	110 x 185 x 153	**MICNO-00220S**

	POWER (kW)		CURRENT (A)			
	HEAVY DUTY	NORMAL DUTY	HEAVY DUTY	NORMAL DUTY	DIMENSION (mm) W x H x D	MODEL
3 X 380 VAC	0.75	1.5	2.1	3.8	110x185x153	**MICNO-00075H**
	1.5	2.2	3.8	6	110x185x153	**MICNO-00150H**
	2.2	3.7	6.0	9	110x185x153	**MICNO-00220H**
	3.7	5.5	9.0	13	110x185x153	**MICNO-00370H**
	5.5	7.5	13	17	135x240x173	**MICNO-00550H**
	7.5	11	17	25	135x240x173	**MICNO-00750H**
	11	15	25	32	170x285x176	**MICNO-01100H**
	15	18.5	32	37	200x330x180	**MICNO-01500H**
	18.5	22	37	45	200x330x180	**MICNO-01850H**
	22	30	45	60	225x400x185	**MICNO-02200H**
	30	37	60	75	255x440x210	**MICNO-03000HS**
	37	45	75	90	255x440x210	**MICNO-03700HS**
	45	55	90	110	255x440x210	**MICNO-04500HS**
	55	75	110	150	280x570x260	**MICNO-05500HS**
	75	90	150	176	320x600x330	**MICNO-07500HS**
	90	110	176	210	320x600x330	**MICNO-09000HS**
	110	132	210	253	320x600x330	**MICNO-11000HS**
	132	160	253	304	320x715x330	**MICNO-13200HS**
	160	185	304	340	320x715x330	**MICNO-16000HS**
	185	200	340	377	480x790x385	**MICNO-18500H**
	200	220	377	423	480x790x385	**MICNO-20000H**
	220	250	423	465	480x790x385	**MICNO-22000HS**
	250	280	465	520	480x790x385	**MICNO-25000HS**
	280	315	520	585	700x970x408	**MICNO-28000H**
	315	350	585	640	700x970x408	**MICNO-31500H**
	350	400	640	720	940x1140x458	**MICNO-35000H**
	400	450	720	820	940x1140x458	**MICNO-40000H**
	450	500	820	900	940x1140x458	**MICNO-45000H**

NEW GENERATION GFD SERIES

DRIVES

New Generation GFD Series Speed Control Drives

Advanced Technology and Innovative Design: GFD Speed Control Drives

The GFD Speed Control Drives, distinguished by their advanced technology and innovative design, have been introduced to the market as a new-generation product for industrial motor control. Featuring high-performance capabilities and a user-friendly interface, these drives are designed to provide reliability and efficiency across various industrial applications.

Product Applications

The GFD Speed Control Drive has a wide range of applications including pump systems, fans, conveyors, industrial machinery, and other motorized equipment. With flexible configuration options and robust performance, it is an ideal solution for enhancing energy efficiency in industrial facilities and reducing maintenance costs.

AC DRIVERS

- AC 1 Phase 200V–240V
- AC 3 Phase 380V–480V
- V/F and Sensorless Vector Control (SVC)
- Capable of driving IM and PM motors
- Overload capacity %150/60s, %180/10s
- Built-in brake unit
- Built-in ModBus RS485 communication
- Multi-step speed and simple PLC function
- Autotune feature
- C3 Class EMC filter
- STO function (Optional)
- Parameter copying and loading with one click via external panel
- Innovative independent airflow channel design and standard coated circuit board prevent dust and oil ingress, protecting the VFD
- Full protection of electronic components on the PCB provides longer product life and reliability
- Side-by-side mounting capability
- Spring-loaded control terminals for quick and tool-free wiring
- 2 Channel Analog Input AI1: 0...10V/0...20mA; AI2: 0...10V
- 1 Channel Analog Output AO1: 0...10V/0...20mA
- 4 Channel Digital Input
- 2 Channel Relay Output

	POWER (kW)	CURRENT (A)	DIMENSIONS (mm) G x H x D	MODEL
Tek Faz 220VAC	0.4	2.5	60x190x155	**GFD-00040S**
	0.75	4.2	60x190x155	**GFD-00075S**
	1.5	7.5	70x190x155	**GFD-00150S**
	2.2	10	70x190x155	**GFD-00220S**

	GÜÇ (kW)	AKIM (A)	ÖLÇÜLER (mm) G x Y x D	MODEL
Üç Faz 380VAC	0.75	2.5	60x190x155	**GFD-00075H**
	1.5	3.7	60x190x155	**GFD-00150H**
	2.2	5.5	70x190x155	**GFD-00220H**
	4	9.5	70x190x155	**GFD-00400H**
	5.5	14	90x235x155	**GFD-00550H**
	7.5	18.5	90x235x155	**GFD-00750H**

MODEL	EXPLANATION
GFD-HP	GFD Operator Panel (Parameter copying, loading)
CN-PE2M	PLC Programming / MICNO Panel remote cable (2m Ethernet)

BRAKING RESISTANCE FOR GFD SERIES DRIVES

DRIVE POWER (kW)	BRAKING RESISTOR		EXPLANATION	DIMENSIONS (mm) G x Y x D	MODEL
	POWER (W)	RESISTANCE (Ω)			
SINGLE PHASE					
0.40	300	300	Aluminum Housing	56x230x35	**BRA0300/300**
0.75	600	130	Aluminum Housing	56x230x35	**BRA0600/130**
1.5	1400	80	Aluminum Housing	70x280x50	**BRA1400/080**
2.2	1800	60	Aluminum Housing	70x280x50	**BRA1800/060**
THREE PHASE					
0.75	600	600	Aluminum Housing	56x230x35	**BRA0600/600**
1.5	1500	300	Aluminum Housing	70x280x50	**BRA1500/300**
2.2	2000	200	Aluminum Housing	70x320x50	**BRA2000/200**
4	3000	100	Galvanized case, boxed	180x365x130	**BR03000/100**
5.5	5000	70	Galvanized case, boxed	180x450x130	**BR05000/070**
7.5	6000	55	Galvanized case, boxed	200x365x230	**BR06000/055**

NEW GENERATION
SD7 SERIES SERVO SYSTEMS

HIGH PERFORMANCE NEXT GENERATION SD7 SERVO SYSTEMS

The SD7 Series Servo Systems offer compact design, Position/Speed/Torque control modes, and high performance to provide solutions for machine manufacturers in industries such as testing devices, presses, cutting, filling, packaging, plastics, and food. They are user-friendly with automatic motor detection, USB port programming, and One-Click Tune feature.

The SD7 Servo Systems have the following main features:

- Single-phase 220V -15%~+10% 50/60HZ
- Three-phase 380V - 400V -15%~+10% 50/60HZ
- Power Range: 400W-7.5kW
- Position/Speed/Torque Control modes
- Switching between control modes
- Easy adjustment and control flexibility
- Automatic motor detection
- Modbus RTU/EtherCAT
- 23-bit Absolute Encoder
- Built-in brake resistance
- Parameter adjustment via PC software or built-in keypad and display
- USB Type-C connection terminal for PC
- 8 Digital inputs
- 5 Digital outputs
- (500kHz) /24V (200kHz)
- 2 Ch. -10~+10VDC Analog Inputs
- 1 Ch. -10~+10VDC Analog Output
- Auto Tuning function
- Zero speed tracking function
- Black box function for error analysis
- Overcurrent , overvoltage , undervoltage , overheating protection functions

SD7 SERIES SERVO SYSTEMS

400W	DESCRIPTION
SD7RS04	400W Servo Driver, Pulse+Direction +Analog+Modbus RTU RS485
SD2EC	400W EtherCat Servo Driver
S2M060F0400ADX	400W Brakes Motor, 23 bit Absolute Encoder, 1.27Nm, 3000 rpm, IP67, Shaft Diameter 14mm
S2M060F0400ADB	400W Brake Motor, 23 bit Absolute Encoder, 1.27Nm, 3000 rpm, IP67, Shaft Diameter 14mm
CM05S-D	Motor Cable (5mt)
CE05S-D	Incremental Encoder Cable (5mt)
CM05S-D-B	Brake Motor Cable (5mt)
CM15S-D	Motor Cable (15mt)
CE15S-D	Incremental Encoder Cable (15mt)
CM15S-D-B	Brake Motor Cable (15mt)
CE05S-D-A	Absolute Encoder Cable (5mt)
CE15S-D-A	Absolute Encoder Cable (15mt)

750W	DESCRIPTION
SD7RS07	750W Servo Driver, Pulse+Direction +Analog+Modbus RTU RS485
SD2EC	750W EtherCat Servo Driver
S2M080F0750ADX	750W Brakes Motor, 23 bit Absolute Encoder, 2.39Nm, 3000 rpm, IP67, Shaft Diameter 19mm
S2M080F0750ADB	750W Brake Motor, 23 bit Absolute Encoder, 2.39Nm, 3000 rpm, IP67, Shaft Diameter 19mm
CM05S-D	Motor Cable (5mt)
CE05S-D	Incremental Encoder Cable (5mt)
CM05S-D-B	Brake Motor Cable (5mt)
CM15S-D	Motor Cable (15mt)
CE15S-D	Incremental Encoder Cable (15mt)
CM15S-D-B	Brake Motor Cable (15mt)
CE05S-D-A	Absolute Encoder Cable (5mt)
CE15S-D-A	Absolute Encoder Cable (15mt)

850W	DESCRIPTION
SD7RS10	1000W Servo Driver, Pulse+Direction +Analog+Modbus RTU RS485
SD3EC	1000W EtherCat Servo Driver
SM130F0850X	850W Brakes Motor, 23 bit Absolute Encoder, 5.4 Nm, 1500 rpm, Shaft Diameter 19mm
SM130F0850B	850W Brake Motor, 23 bit Absolute Encoder, 5.4 Nm, 1500 rpm, Shaft Diameter 19mm
CM05H	Motor Cable (5mt)
CE05H	Incremental Encoder Cable (5mt)
BC05H	Brake Cable (5mt)
CM15H	Motor Cable (15mt)
CE15H	Incremental Encoder Cable (15mt)
CE05H-A	Absolute Encoder Cable (5mt)
CE15H-A	Absolute Encoder Cable (15mt)

SD7 SERIES SERVO SYSTEMS

1300W	DESCRIPTION
SD7RS15	1500W Servo Driver, Pulse+Direction + Analog+Modbus RTU RS485
SD4EC	1500W EtherCat Servo Driver
SM130F1300X	1300W Brakes Motor, 23 bit Absolute Encoder, 8.4 Nm, 1500 rpm, Shaft Diameter 22mm
SM130F1300B	1300W Brake Motor, 23 bit Absolute Encoder, 8.4 Nm, 1500 rpm, Shaft Diameter 22mm
CM05H	Motor Cable (5mt)
CE05H	Incremental Encoder Cable (5mt)
BC05H	Brake Cable (5mt)
CM15H	Motor Cable (15mt)
CE15H	Incremental Encoder Cable (15mt)
CE05H-A	Absolute Encoder Cable (5mt)
CE15H-A	Absolute Encoder Cable (15mt)

1800W	DESCRIPTION
SD7RS20	2000W Servo Driver, Pulse+Direction + Analog+Modbus RTU RS485
SD5EC	2000W EtherCat Servo Driver
SM130F1800X	1800W Brakes Motor, 23 bit Absolute Encoder, 11.5 Nm, 1500 rpm, Shaft Diameter 22mm
SM130F1800B	1800W Brakesli Motor, 23 bit Absolute Encoder, 11.5 Nm, 1500 rpm, Shaft Diameter 22mm
CM05H	Motor Cable (5mt)
CE05H	Incremental Encoder Cable (5mt)
BC05H	Brake Cable (5mt)
CM15H	Motor Cable (15mt)
CE15H	Incremental Encoder Cable (15mt)
CE05H-A	Absolute Encoder Cable (5mt)
CE15H-A	Absolute Encoder Cable (15mt)

2900W	DESCRIPTION
SD7RS30H	3000W Servo Driver 3x380VAC, Pulse+Direction + Analog+Modbus RTU RS485
SD7EC30H	3000W EtherCat Servo Driver 3x380VAC
S2M180F2900XH	2900W Brakes Motor, 180mm Flanş, 23bit Absolute Encoder, 18.6Nm,1500rpm, Shaft Diameter:35mm
S2M180F2900BH	2900W Brake Motor, 180mm Flanş, 23bit Absolute Encoder, 18.6Nm,1500rpm, Shaft Diameter:35mm
CM05HA380	Motor Cable (5mt)
CM15HA380	Motor Cable (15mt)
CE05H380	Incremental Encoder Cable (5mt)
CE15H380	Incremental Encoder Cable (15mt)
BC05H380	Brake Cable (5mt)
BC15H380	Brake Cable (15mt)
CE05H380-AB	Absolute Encoder Cable (5mt)
CE15H380-AB	Absolute Encoder Cable (15mt)

SD7 SERIES SERVO SYSTEMS

4400W	DESCRIPTION
SD7RS44H	4400W Servo Driver, 3x380VAC, Pulse+Direction + Analog+Modbus RTU RS485
SD7EC44H	4400W EtherCat Servo Driver 3x380VAC
S2M180F4400XH	4.4kw Brakes Motor, 180mm Flanş , 23bit Absolute Encoder, 28.6Nm,1500rpm, Shaft Diameter:35mm
S2M180F4400BH	4.4kw Brake Motor, 180mm Flanş , 23bit Absolute Encoder, 28.6Nm,1500rpm, Shaft Diameter:35mm
CM05HB380	Motor Cable (5mt)
CM15HB380	Motor Cable (15mt)
CE05H380	Incremental Encoder Cable (5mt)
CE15H380	Incremental Encoder Cable (15mt)
BC05H380	Brake Cable (5mt)
BC15H380	Brake Cable (15mt)
CE05H380-AB	Absolute Encoder Cable (5mt)
CE15H380-AB	Absolute Encoder Cable (15mt)

5500W	DESCRIPTION
SD7RS55H	5500W Servo Driver 3x380VAC, Pulse+Direction +Analog+Modbus RTU RS485
SD7EC55H	5500W EtherCat Servo Driver 3x380VAC
S2M180F5500XH	5500W Brakes Motor, 180mm Flanş , 23bit Absolute Encoder, 35Nm,1500rpm, Shaft Diameter:35mm
S2M180F5500BH	5500W Brake Motor, 180mm Flanş , 23bit Absolute Encoder, 35Nm,1500rpm, Shaft Diameter:35mm
CM05HB380	Motor Cable (5mt)
CM15HB380	Motor Cable (15mt)
CE05H380	Incremental Encoder Cable (5mt)
CE15H380	Incremental Encoder Cable (15mt)
BC05H380	Brake Cable (5mt)
BC15H380	Brake Cable (15mt)
CE05H380-AB	Absolute Encoder Cable (5mt)
CE15H380-AB	Absolute Encoder Cable (15mt)

7500W	DESCRIPTION
SD7RS75H	7500W Servo Driver 3x380VAC, Pulse+Direction +Analog+Modbus RTU RS485
SD7EC75H	7500W EtherCat Servo Driver 3x380VAC
S2M180F7500XH	7500W Brakes Motor, 180mm Flanş , 23bit Absolute Encoder, 48Nm,1500rpm,Shaft Diameter:35mm
S2M180F7500BH	7500W Brake Motor, 180mm Flanş , 23bit Absolute Encoder, 48Nm,1500rpm,Shaft Diameter:35mm
CM05HB380	Motor Cable (5mt)
CM15HB380	Motor Cable (15mt)
CE05H380	Incremental Encoder Cable (5mt)
CE15H380	Incremental Encoder Cable (15mt)
BC05H380	Brake Cable (5mt)
BC15H380	Brake Cable (15mt)
CE05H380-AB	Absolute Encoder Cable (5mt)
CE15H380-AB	Absolute Encoder Cable (15mt)

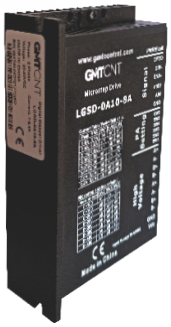
STEPPER
MOTORS AND DRIVERS

STEPPER MOTORS AND DRIVERS

SPECIFICATIONS

- The new 32-bit DSP technology
- Optically isolated differential inputs
- Ultra-low noise and vibration
- Supports 4 and 8 lined two-phase stepper motor
- Current settings is optional between ratings
- Current will automatically be halved when standing still
- Pulse frequency response up to 200KHz
- Overvoltage, undervoltage, short circuit protection

MODEL	SPECIFICATIONS
GSTD2542	24-48 VDC 4.2A Step Driver
GSTD2556	24-60 VDC 5.6A Step Driver
GSTM4218-048-810	42 FLANGE, 1.0A, 0.34Nm Step Motor
GSTM5718-080-830	57 FLANGE, 3.0A, 2.0Nm Step Motor
GSTD2860	18-80 VAC 24-110 VDC 6, 0A Step Driver
GSTM8618-080-842	86 FLANGE, 4.2A, 4.5Nm Step Motor
GSTM8618-118-842	86 FLANGE, 4.2A, 8.5Nm Step Motor
GSTM8618-156-845	86 FLANGE, 4.5A, 12Nm Step Motor
GSTD22280	80-220 VAC 8.0A Step Driver
GSTM11018-115-460	110 FLANGE, 6.0A, 12Nm Step Motor
GSTM11018-150-460	110 FLANGE, 6.0A, 20Nm Step Motor
GSTM11018-165-460	110 FLANGE, 6.0A, 24Nm Step Motor



SPECIFICATIONS

- Power Supply: 18-40VDC
- Command Source: Simple switch signal or PLC I/O signal or 0-10V analog input
- 24V logic input for motor start/stop and direction
- Low noise and vibration
- Able to drive 4-wire and 8-wire stepper motors
- Current adjustment option

MODEL	AÇIKLAMA
LGSD-0A10-8A	18-40VDC, 0-10VDC Analog Speed Input Reference 0-450rpm, 8A Dual Motor Output Stepper Driver
LGSM86-35	86 FLANGE, 4A, 2.5Nm, Step Motor
LGSM86-45C	86 FLANGE, 6A, 4.5Nm, Step Motor
GSTM4218-048-810	42 FLANGE, 1.0A, 0.34Nm Step Motor
GSTM5718-080-830	57 FLANGE, 3.0A, 2.0Nm Step Motor
GSTM8618-080-842	86 FLANGE, 4.2A, 4.5Nm Step Motor
GSTM8618-118-842	86 FLANGE, 4.2A, 8.5Nm Step Motor
GSTM8618-156-845	86 FLANGE, 4.5A, 12Nm Step Motor

ACCESSORIES

SMPS POWER SUPPLY

- Universal Input voltage range
- Low cost, high reliability
- Overload, overvoltage, short circuit, over-heating protection
- 100% full load test
- CE approved according to EN standards

SPECIFICATIONS	MODEL	POWER (W)	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT
	EPS060	60	100-240 VAC	24 VDC	2.5A
	EPS120	120	100-240 VAC	24 VDC	5A
	EPS240	240	200-240 VAC	24 VDC	10A
	EPS480	480	200-240 VAC	24 VDC	20A

ISOLATED REPEATER

- 24VDC power supply
- Automated data flow control (1 Mbps)
- Automatic data transmission direction
- Galvanic isolation up to 7kV
- Asynchronous, P2P, M2P Half-Duplex working mode
- 8kV ESD Protection
- 4kV EFT Protection
- 0,5kV SURGE Protection
- CE Certificated

SPECIFICATIONS	MODEL
	GRP 485

USB CONVERTER

GCM 232-USB	GCM 485-USB
• USB-RS232 converter • Asynchronous, P2P, P2M, Full Dublex working mode	• USB-RS485 converter • 32 interface devices load capacity • 1,1km transmission distance (at 9600bps) • Asynchronous, P2P, P2M, Half Dublex working mode

USB ver. 2.0

4800...256000bps serial port signal speed

Signal indicators

CE approval

COMMUNICATION AND PROGRAMMING CABLE

SPECIFICATIONS	MODEL
• PLC-HMI Communication cable (RS232 / RS485, 1.5 mt)	**GIM01-BC-3P-1.5M**
• PLC-HMI Communication cable (RS232 / RS485, 3 mt)	**GIM01-BC-3P-3M**
• PLC-HMI Communication cable (RS232 / RS485, 5 mt)	**GIM01-BC-3P-5M**
• HMI Programing cable (1.5 mt Micro USB)	**GCON-TSG-USB**

NOTES

NOTES

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You can reach us by phone to get information about our products and applications.

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- Access our training videos to gain information about applications.

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