GS4-Specific Optional Accessories – Input/Output Expansion Cards
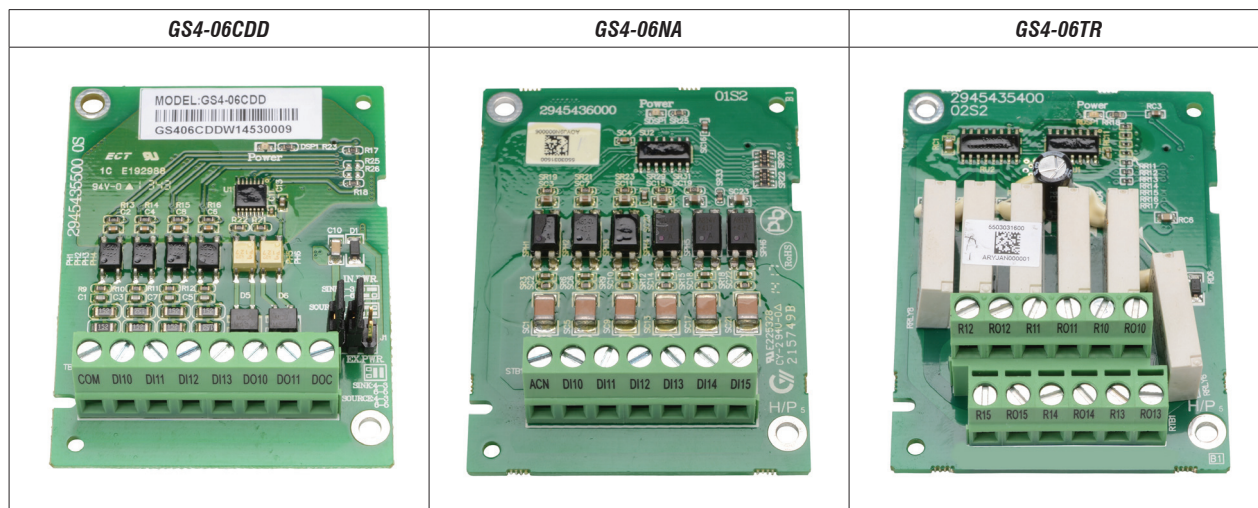
Accessories Applicable Only to GS4 AC Drives

Please refer to the "GS/DURApulse AC Drives – Accessories " section for accessories applicable to multiple families of GS/DURApulse AC Drives, including GS4.

Input/Output Expansion Cards

Optional I/O cards allow additional inputs and outputs to be added to the GS4 internal I/O. (Only one I/O card can be installed at a time.)

GS4 *DURA*PULSE Drives Input/Output Expansion Cards							
Part Number	**Price**	**Description**	**Terminals**	**Specifications**	**Wire Size**	**Placement***	**GS Drive**
GS4-06CDD*	$10_9:	DURAPULSE combination discrete I/O module, selectable sinking or sourcing 24VDC input, 24VDC output, 4-point input, 2-point output, 1 input common(s), 1 output common(s), 50mA resistive output current.	COM	(1) Common for Input Terminals	20~24 AWG	slot #3	GS4 – all
			DI10–DI13	(4) Discrete Inputs; selectable sinking or sourcing Internal power available: 24VDC ±5% 200mA, 5W External power: 24VDC (30V max, 19V min), 30W ON: activation 6.5mA @ ≥ 9VDC OFF: leakage 10μA ≤ 3VDC			
			DO10–DO11	(2) Discrete Outputs (photocoupler) Duty-cycle: 50% Max. output frequency: 100Hz Max. current: 50mA resistive Max. voltage: 48VDC			
			DOC	(1) Common for Output Terminals			
GS4-06NA*	$10_5:	DURAPULSE discrete input module, sinking 120VAC input, 6-point input, 1 input common(s).	ACN	(1) AC power common for Input Terminal (Neutral)	20~24 AWG	slot #3	GS4 – all
			DI10–DI15	(6) Discrete Inputs; sinking Input voltage: 100–130 VAC Input frequency: 47–63 Hz Input impedance: 27kΩ Terminal response time: ON: 10ms OFF: 20ms			
GS4-06TR*	$10_6:	DURAPULSE relay output module, Form A (SPST-NO) relays, 6-point output, 6 output common(s), 3 Amps resistive output current, 1.2 Amps inductive output current, 250VAC/30VDC input.	R10–R15	(6) separate commons for each relay	20~26 AWG	slot #3	GS4 – all
			RO10–RO15	(6) normally open relay output Resistive load: 5A(NO) / 250VAC 5A(NO) / 30VDC Inductive load (COSØ 0.4) 2A(NO) / 250VAC			

* GS4 AC drives have three option card slots; each slot will hold only one option card designed for that particular slot. I/O cards are designed for slot #3, and will not fit in any other slot.

GS4-06CDD	GS4-06NA	GS4-06TR

GS4-Specific Optional Accessories – Communication Interface Cards

Accessories Applicable Only to GS4 AC Drives

Please refer to the "GS/DURApulse AC Drives – Accessories " section for accessories applicable to multiple families of GS/DURApulse AC Drives, including GS4.

Communication Cards

Communication interface cards provide EtherNet/IP™ or ModbusTCP communication capability. Only one communication card can be installed at a time.

GS4 *DURA*PULSE Drives Communication Interface Cards					
Part Number	*Price*	*Description*	*Specifications*	*Placement**	*GS Drive*

GS4-CM-ENETIP*	$010_7:	DURAPULSE communication card, EtherNet/IP	Interface: EtherNet/IP RJ45 with MDI/MDIX auto-detect
			Number of ports: 1 (16 connections max)
			Transmission method: IEEE 802.3, IEEE 802.3u
			Transmission cable: Category 5e shielding 100MHz
			Transmission speed: 10/100 Mbps Auto-Detect
			Network protocol: ICMP, IP, TCP, UDP, DHCP, Modbus TCP, EtherNet/IP
			Power supply voltage: 5VDC (supplied by the GS4 AC drive)
			Insulation voltage: 500VDC
			Power consumption: 0.8W
			Weight: 25g
			Noise immunity
			  ESD (IEC 61800-5-1, IEC 61000-4-2)
			  EFT (IEC 61800-5-1, IEC 61000-4-4)
			  Surge Test (IEC 61800-5-1, IEC 61000-4-5)
			  Conducted Susceptibility Test (IEC 61800-5-1, IEC 61000-4-6)
			Operation: -10°C to +50°C [14°F to 122°F] (temperature), 90% (humidity)
			Storage: -25°C to +70°C [-13°F to +158°F] (temperature), 95% (humidity)
			Vibration / Shock immunity:
			  IEC 61800-5-1, IEC 60068-2-6/IEC 61800-5-1, IEC 60068-2-27
			Ethernet timeout functionality for Ethernet/IP connections
			GS4-CM-ENETIP supports 4 EtherNet/IP connections and also supports 4 ModTCP
			  connections. These ModTCP connections cannot start/stop or change command
			  frequency in the drive, but can be used to monitor the drive and change Parameters.
			  Ethernet timeout functionality *for ModTCP connections* is *not* supported on the
			  EtherNet/IP card.
				slot #1	GS4 – all

GS4-CM-MODTCP*	$10_8:	DURAPULSE communication card, ModbusTCP	Interface: Ethernet RJ45 with MDI/MDX auto-detect
			Number of ports: 1 (4 connections max)
			Transmission method: IEEE 802.3, IEEE 802.3u
			Transmission cable: Category 5e shielding 100MHz
			Transmission speed: 10/100 Mbps Auto-Detect
			Network protocol: ICMP, IP, TCP, UDP, DHCP, Modbus TCP
			Power supply voltage: 5VDC (supplied by the GS4 AC drive)
			Insulation voltage: 500VDC
			Power consumption: 0.8W
			Weight: 25g
			Noise immunity
			  ESD (IEC 61800-5-1, IEC 61000-4-2)
			  EFT (IEC 61800-5-1, IEC 61000-4-4)
			  Surge Test (IEC 61800-5-1, IEC 61000-4-5)
			  Conducted Susceptibility Test (IEC 61800-5-1, IEC 61000-4-6)
			Operation: -10°C to +50°C [14°F to 122°F] (temperature), 90% (humidity)
			Storage: -25°C to +70°C [-13°F to +158°F] (temperature), 95% (humidity)
			Vibration / Shock immunity:
			  IEC 61800-5-1, IEC 60068-2-6/IEC 61800-5-1, IEC 60068-2-27
			Ethernet Timeout functionality for ModTCP connections
				slot #1	GS4 – all

* GS4 AC drives have three option card slots; each slot will hold only one option card designed for that particular slot.
  Communication interface cards are designed for slot #1, and will not fit in any other slot.

GS4-CM-ENETIP	GS4-CM-MODTCP