

# GS4-Specific Optional Accessories – Input/Output Expansion Cards

## Accessories Applicable Only to GS4 AC Drives

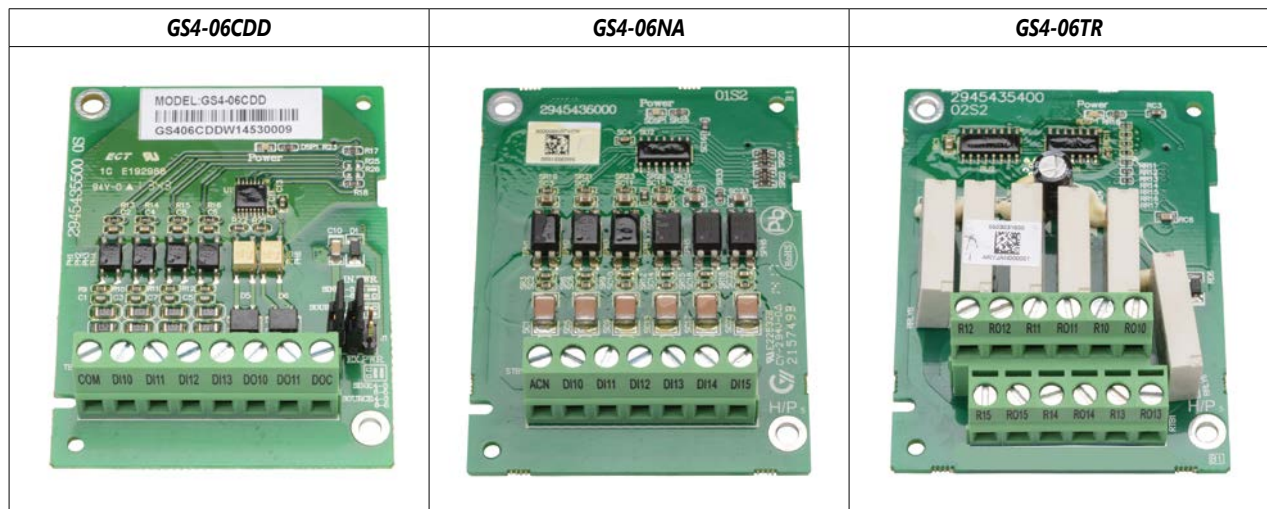
Please refer to the "GS/DURApulse AC Drives – Accessories" section for accessories applicable to multiple families of GS/DURApulse AC Drives, including GS4.

## 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 DURAPULSE Drives Input/Output Expansion Cards							
Part Number	Price	Description	Terminals	Specifications	Wire Size	Placement*	GS Drive
GS4-06CDD*	\$28.50	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*	\$29.50	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*	\$46.50	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-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 DURAPULSE Drives Communication Interface Cards					
Part Number	Price	Description	Specifications	Placement*	GS Drive
GS4-CM-ENETIP*	\$102.00	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 <u>for ModTCP connections</u> is <u>not</u> supported on the EtherNet/IP card.	slot #1	GS4 – all
GS4-CM-MODTCP*	\$89.00	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.

