Analog Combination Input and Output Module

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Inputs/Outputs</th>
<th>Range</th>
<th>Resolution</th>
<th>Removable Terminal Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>1756-IF4X0F2F</td>
<td>4 high-speed, submillisecond, differential inputs 4 high-speed, submillisecond, differential inputs 2 high-speed voltage or current outputs</td>
<td>Input: ±10V 0…10V 0…5V 0…20 mA Output: ±10V 0…20 mA</td>
<td>Input: Approx 14 bits across ±10V DC (21V total) ±10V: 1.3 mV/bit, 14-bit effective 0…10.5V: 1.3 mV/bit, 13-bit effective 0…5.25V: 1.3 mV/bit, 12-bit effective Approx 12 bits across 21 mA 0…21 mA: 5.25 μA/bit Output: 13 bits across 21 mA = 2.8 μA/bit 14 bits across 21.8V = 1.3 mV/bit</td>
<td>1756-TBCH 1756-TBS6H</td>
</tr>
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</table>

Specialty I/O Modules

<table>
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<tr>
<th>Cat. No.</th>
<th>Inputs/Outputs</th>
<th>Description</th>
<th>Removable Terminal Block</th>
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<tbody>
<tr>
<td>1756-CFM</td>
<td>4 inputs (2 per channel) 2 outputs, current sourcing</td>
<td>Configurable flowmeter module 2 Flowmeter (F) inputs used for all modes 2 Gate inputs used in Totalizer mode for prover/store count</td>
<td>1756-TBNH 1756-TBSH</td>
</tr>
<tr>
<td>1756-HSC</td>
<td>2 counters, each with 3 inputs (A, B, Z for gate/reset) 4 outputs (2 points/group)</td>
<td>High-speed counter module 5V operation: 4.5…5.5V DC 12/24V operation: 10…26.4V DC</td>
<td>1756-TBCH 1756-TBS6H</td>
</tr>
<tr>
<td>1756-LSC8XIB8I</td>
<td>8…24V DC counters 8 individually isolated, standard inputs, or counters</td>
<td>Low speed counter module 8…40 kHz 24V DC counters 8 individually isolated 12/24V DC low speed (max frequency 40 kHz) counters 8 individually isolated high-speed 12/24V DC sink/source standard or counter control inputs</td>
<td>1756-TBCH 1756-TBS6H</td>
</tr>
<tr>
<td>1756-PLS</td>
<td>Left section: 2 groups of 4 outputs and 4 inputs each Center section: resolver interface and I/O control Right section: 2 groups of 4 outputs and 4 inputs each</td>
<td>Programmable limit switch module</td>
<td>Requires 3 RTBs: 1756-TBNH or 1756-TBSH</td>
</tr>
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</table>
Select a ControlLogix System

**Step 1: Select ControlLogix I/O Modules**
- I/O modules—Some modules have field-side diagnostics, electronic fusing, or individually isolated inputs/outputs
- A remote terminal block (RTB) or wiring system for each I/O module

**Step 2: Select ControlLogix Integrated Motion**
- An EtherNet/IP communication module for Integrated Motion
- Associated cables
- Select drives, motors, and accessories (use the Motion Analyzer software)

**Step 3: Select ControlLogix Communication Modules**
- Networks
- Communication modules
- Associated cables and network equipment
- Sufficient modules and cables if you are planning a redundant system

**Step 4: Select ControlLogix Controllers**
- Standard ControlLogix controller
- Redundant ControlLogix controller
- Safety GuardLogix controller
- Extreme environment ControlLogix controller
- Standard Armor ControlLogix controller
- Safety Armor GuardLogix controller

**Step 5: Select ControlLogix Chassis**
- A chassis with sufficient slots
- Slot fillers for empty slots

**Step 6: Select ControlLogix Power Supplies**
- One power supply for each chassis, if you are using standard power supplies
- A power supply bundle if you are planning a redundant power supply system